

PA-0035 US

<110> Kaser, Matthew R.

<120> GENES EXPRESSED IN TREATED HUMAN C3A LIVER CELL CULTURES

<130> PA-0035 US

<140> To Be Assigned

<141> Herewith

<150> 60/222,113

<151> 2000-07-28

<160> 401

<170> PERL Program

<210> 1

<211> 572

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<211> 263

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<221> unsure

<222> 22, 26, 42

<223> a, t, c, g, or other

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tctttcaggg acgtgatgccc ttaaggatc tggcaagcta gtgatatgtg tcagaaatca 180
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<211> 212
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<213> Homo sapiens

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<221> unsure
<222> 42, 161
<223> a, t, c, g, or other

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aagtacaggg gcctggtccg caaaggggaag aaaagcaaaa nacgaaaatg gctaaattcg 180
tgatccgccc agccactgcc gccgactgca gt 212

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<213> Homo sapiens

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<223> Incyte ID No: 129384.1c

<220>
<221> unsure
<222> 482, 555
<223> a, t, c, g, or other

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tatactgcga tttaaattaa gggcgcgggc ggagttagaa ggaccccagg agccgagagg 180
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<220>

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<221> misc_feature

<223> Incyte ID No: 3201389CB1

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<210> 6

<211> 429

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3201389CD1

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<400> 6

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Val	Ile	Leu	Gly	Gly	Leu	Ile	Leu	Phe	Gly	Val	Leu	Gly	Asn	Ile	
				35					40					45	
Leu	Val	Ile	Leu	Ser	Val	Ala	Cys	His	Arg	His	Leu	His	Ser	Val	
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Thr	His	Tyr	Tyr	Ile	Val	Asn	Leu	Ala	Val	Ala	Asp	Leu	Leu	Leu	
				65					70					75	
Thr	Ser	Thr	Val	Leu	Pro	Phe	Ser	Ala	Ile	Phe	Glu	Val	Leu	Gly	
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Tyr	Trp	Ala	Phe	Gly	Arg	Val	Phe	Cys	Asn	Ile	Trp	Ala	Ala	Val	
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Asp	Val	Leu	Cys	Cys	Thr	Ala	Ser	Ile	Met	Gly	Leu	Cys	Ile	Ile	
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Ser	Ile	Asp	Arg	Tyr	Ile	Gly	Val	Ser	Tyr	Pro	Leu	Arg	Tyr	Pro	
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Thr	Ile	Val	Thr	Gln	Arg	Arg	Gly	Leu	Met	Ala	Leu	Leu	Cys	Val	
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Trp	Ala	Leu	Ser	Leu	Val	Ile	Ser	Ile	Gly	Pro	Leu	Phe	Gly	Trp	
				155					160					165	
Arg	Gln	Pro	Ala	Pro	Glu	Asp	Glu	Thr	Ile	Cys	Gln	Ile	Asn	Glu	
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Glu	Pro	Gly	Tyr	Val	Leu	Phe	Ser	Ala	Leu	Gly	Ser	Phe	Tyr	Leu	
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Pro	Leu	Ala	Ile	Ile	Leu	Val	Met	Tyr	Cys	Arg	Val	Tyr	Val	Val	
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Ala	Lys	Arg	Glu	Ser	Arg	Gly	Leu	Lys	Ser	Gly	Leu	Lys	Thr	Asp	
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Lys	Ser	Asp	Ser	Glu	Gln	Val	Thr	Leu	Arg	Ile	His	Arg	Lys	Asn	
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Ala	Pro	Ala	Gly	Gly	Ser	Gly	Met	Ala	Ser	Ala	Lys	Thr	Lys	Thr	
				245					250					255	
His	Phe	Ser	Val	Arg	Leu	Leu	Lys	Phe	Ser	Arg	Glu	Lys	Lys	Ala	
				260					265					270	
Ala	Lys	Thr	Leu	Gly	Ile	Val	Val	Gly	Cys	Phe	Val	Leu	Cys	Trp	
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Leu	Pro	Phe	Phe	Leu	Val	Met	Pro	Ile	Gly	Ser	Phe	Phe	Pro	Asp	
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Phe	Lys	Pro	Ser	Glu	Thr	Val	Phe	Lys	Ile	Val	Phe	Trp	Leu	Gly	
				305					310					315	
Tyr	Leu	Asn	Ser	Cys	Ile	Asn	Pro	Ile	Ile	Tyr	Pro	Cys	Ser	Ser	
				320					325					330	
Gln	Glu	Phe	Lys	Lys	Ala	Phe	Gln	Asn	Val	Leu	Arg	Ile	Gln	Cys	
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Leu	Arg	Arg	Lys	Gln	Ser	Ser	Lys	His	Ala	Leu	Gly	Tyr	Thr	Leu	
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His	Pro	Pro	Ser	Gln	Ala	Val	Glu	Gly	Gln	His	Lys	Asp	Met	Val	
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Arg	Ile	Pro	Val	Gly	Ser	Arg	Glu	Thr	Phe	Tyr	Arg	Ile	Ser	Lys	
				380					385					390	
Thr	Asp	Gly	Val	Cys	Glu	Trp	Lys	Phe	Phe	Ser	Ser	Met	Pro	Arg	
				395					400					405	
Gly	Ser	Ala	Arg	Ile	Thr	Val	Ser	Lys	Asp	Gln	Ser	Ser	Cys	Thr	

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410 415 420
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<210> 7
<211> 624
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 086390CB1

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<211> 130
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 086390CD1

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20 25 30
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35 40 45
Asn His Gln Asn Ser Asn Arg Tyr Leu Tyr Ala Arg Gly Asn Tyr
50 55 60
Asp Ala Ala Gln Arg Gly Pro Gly Gly Val Trp Ala Ala Lys Leu
65 70 75
Ile Ser Arg Ser Arg Val Tyr Leu Gln Gly Leu Ile Asp Tyr Tyr
80 85 90
Leu Phe Gly Asn Ser Ser Thr Val Leu Glu Asp Ser Lys Ser Asn
95 100 105
Glu Lys Ala Glu Glu Trp Gly Arg Ser Gly Lys Asp Pro Asp Arg
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Phe Arg Pro Asp Gly Leu Pro Lys Lys Tyr
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<210> 9
<211> 852
<212> DNA

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<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 1102322.16

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<210> 10

<211> 2260

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 1545176CB1

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<210> 11
<211> 646
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1545176CD1

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35 40 45
Asp Thr Glu Arg Leu Ile Gly Asp Ala Ala Lys Asn Gln Val Ala
50 55 60
Met Asn Pro Thr Asn Thr Val Phe Asp Ala Lys Arg Leu Ile Gly
65 70 75
Arg Arg Phe Asp Asp Ala Val Val Gln Ser Asp Met Lys His Trp
80 85 90
Pro Phe Met Val Val Asn Asp Ala Gly Arg Pro Lys Val Gln Val
95 100 105
Glu Tyr Lys Gly Glu Thr Lys Ser Phe Tyr Pro Glu Glu Val Ser
110 115 120
Ser Met Val Leu Thr Lys Met Lys Glu Ile Ala Glu Ala Tyr Leu
125 130 135
Gly Lys Thr Val Thr Asn Ala Val Val Thr Val Pro Ala Tyr Phe
140 145 150
Asn Asp Ser Gln Arg Gln Ala Thr Lys Asp Ala Gly Thr Ile Ala
155 160 165
Gly Leu Asn Val Leu Arg Ile Ile Asn Glu Pro Thr Ala Ala Ala
170 175 180
Ile Ala Tyr Gly Leu Asp Lys Lys Val Gly Ala Glu Arg Asn Val
185 190 195
Leu Ile Phe Asp Leu Gly Gly Gly Thr Phe Asp Val Ser Ile Leu
200 205 210
Thr Ile Glu Asp Gly Ile Phe Glu Val Lys Ser Thr Ala Gly Asp
215 220 225

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Thr His Leu Gly Gly Glu Asp Phe Asp Asn Arg Met Val Asn His	230	235	240
Phe Ile Ala Glu Phe Lys Arg Lys His Lys Lys Asp Ile Ser Glu	245	250	255
Asn Lys Arg Ala Val Arg Arg Leu Arg Thr Ala Cys Glu Arg Ala	260	265	270
Lys Arg Thr Leu Ser Ser Ser Thr Gln Ala Ser Ile Glu Ile Asp	275	280	285
Ser Leu Tyr Glu Gly Ile Asp Phe Tyr Thr Ser Ile Thr Arg Ala	290	295	300
Arg Phe Glu Glu Leu Asn Ala Asp Leu Phe Arg Gly Thr Leu Asp	305	310	315
Pro Val Glu Lys Ala Leu Arg Asp Ala Lys Leu Asp Lys Ser Gln	320	325	330
Ile His Asp Ile Val Leu Val Gly Gly Ser Thr Arg Ile Pro Lys	335	340	345
Ile Gln Lys Leu Leu Gln Asp Phe Phe Asn Gly Lys Glu Leu Asn	350	355	360
Lys Ser Ile Asn Pro Asp Glu Ala Val Ala Tyr Gly Ala Ala Val	365	370	375
Gln Ala Ala Ile Leu Ser Gly Asp Lys Ser Glu Asn Val Gln Asp	380	385	390
Leu Leu Leu Leu Asp Val Thr Pro Leu Ser Leu Gly Ile Glu Thr	395	400	405
Ala Gly Gly Val Met Thr Val Leu Ile Lys Arg Asn Thr Thr Ile	410	415	420
Pro Thr Lys Gln Thr Gln Thr Phe Thr Thr Tyr Ser Asp Asn Gln	425	430	435
Pro Gly Val Leu Ile Gln Val Tyr Glu Gly Glu Arg Ala Met Thr	440	445	450
Lys Asp Asn Asn Leu Leu Gly Lys Phe Glu Leu Thr Gly Ile Pro	455	460	465
Pro Ala Pro Arg Gly Val Pro Gln Ile Glu Val Thr Phe Asp Ile	470	475	480
Asp Ala Asn Gly Ile Leu Asn Val Ser Ala Val Asp Lys Ser Thr	485	490	495
Gly Lys Glu Asn Lys Ile Thr Ile Thr Asn Asp Lys Gly Arg Leu	500	505	510
Ser Lys Glu Asp Ile Glu Arg Met Val Gln Glu Ala Glu Lys Tyr	515	520	525
Lys Ala Glu Asp Glu Lys Gln Arg Asp Lys Val Ser Ser Lys Asn	530	535	540
Ser Leu Glu Ser Tyr Ala Phe Asn Met Lys Ala Thr Val Glu Asp	545	550	555
Glu Lys Leu Gln Gly Lys Ile Asn Asp Glu Asp Lys Gln Lys Ile	560	565	570
Leu Asp Lys Cys Asn Glu Ile Ile Asn Trp Leu Asp Lys Asn Gln	575	580	585
Thr Ala Glu Lys Glu Glu Phe Glu His Gln Gln Lys Glu Leu Glu	590	595	600
Lys Val Cys Asn Pro Ile Ile Thr Lys Leu Tyr Gln Ser Ala Gly	605	610	615
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Asp

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 Glu Ala Leu Leu Leu Leu Ala Ala Gly Pro Ala Asp His Leu Leu
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 Leu Gln Leu Tyr Ser Gly Arg Leu Gln Val Arg Leu Val Leu Gly
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 Gln Glu Glu Leu Arg Leu Gln Thr Pro Ala Glu Thr Leu Leu Ser
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Asp Ser Ile Pro His Thr Val Val Leu Thr Val Val Glu Gly Trp	110	115	120
Ala Thr Leu Ser Val Asp Gly Phe Leu Asn Ala Ser Ser Ala Val	125	130	135
Pro Gly Ala Pro Leu Glu Val Pro Tyr Gly Leu Phe Val Gly Gly	140	145	150
Thr Gly Thr Leu Gly Leu Pro Tyr Leu Arg Gly Thr Ser Arg Pro	155	160	165
Leu Arg Gly Cys Leu His Ala Ala Thr Leu Asn Gly Arg Ser Leu	170	175	180
Leu Arg Pro Leu Thr Pro Asp Val His Glu Gly Cys Ala Glu Glu	185	190	195
Phe Ser Ala Ser Asp Asp Val Ala Leu Gly Phe Ser Gly Pro His	200	205	210
Ser Leu Ala Ala Phe Pro Ala Trp Gly Thr Gln Asp Glu Gly Thr	215	220	225
Leu Glu Phe Thr Leu Thr Thr Gln Ser Arg Gln Ala Pro Leu Ala	230	235	240
Phe Gln Ala Gly Gly Arg Arg Gly Asp Phe Ile Tyr Val Asp Ile	245	250	255
Phe Glu Gly His Leu Arg Ala Val Val Glu Lys Gly Gln Gly Thr	260	265	270
Val Leu Leu His Asn Ser Val Pro Val Ala Asp Gly Gln Pro His	275	280	285
Glu Val Ser Val His Ile Asn Ala His Arg Leu Glu Ile Ser Val	290	295	300
Asp Gln Tyr Pro Thr His Thr Ser Asn Arg Gly Val Leu Ser Tyr	305	310	315
Leu Glu Pro Arg Gly Ser Leu Leu Leu Gly Gly Leu Asp Ala Glu	320	325	330
Ala Ser Arg His Leu Gln Glu His Arg Leu Gly Leu Thr Pro Glu	335	340	345
Ala Thr Asn Ala Ser Leu Leu Gly Cys Met Glu Asp Leu Ser Val	350	355	360
Asn Gly Gln Arg Arg Gly Leu Arg Glu Ala Leu Leu Thr Arg Asn	365	370	375
Met Ala Ala Gly Cys Arg Leu Glu Glu Glu Glu Tyr Glu Asp Asp	380	385	390
Ala Tyr Gly His Tyr Glu Ala Phe Ser Thr Leu Ala Pro Glu Ala	395	400	405
Trp Pro Ala Met Glu Leu Pro Glu Pro Cys Val Pro Glu Pro Gly	410	415	420
Leu Pro Pro Val Phe Ala Asn Phe Thr Gln Leu Leu Thr Ile Ser	425	430	435
Pro Leu Val Val Ala Glu Gly Gly Thr Ala Trp Leu Glu Trp Arg	440	445	450
His Val Gln Pro Thr Leu Asp Leu Met Glu Ala Glu Leu Arg Lys	455	460	465
Ser Gln Val Leu Phe Ser Val Thr Arg Gly Ala His Tyr Gly Glu	470	475	480
Leu Glu Leu Asp Ile Leu Gly Ala Gln Ala Arg Lys Met Phe Thr	485	490	495
Leu Leu Asp Val Val Asn Arg Lys Ala Arg Phe Ile His Asp Gly	500	505	510
Ser Glu Asp Thr Ser Asp Gln Leu Val Leu Glu Val Ser Val Thr	515	520	525

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Leu Leu Pro Ile Gln Val Asn Pro Val Asn Asp Pro Pro His Ile	545	550	555
Ile Phe Pro His Gly Ser Leu Met Val Ile Leu Glu His Thr Gln	560	565	570
Lys Pro Leu Gly Pro Glu Val Phe Gln Ala Tyr Asp Pro Asp Ser	575	580	585
Ala Cys Glu Gly Leu Thr Phe Gln Val Leu Gly Thr Ser Ser Gly	590	595	600
Leu Pro Val Glu Arg Arg Asp Gln Pro Gly Glu Pro Ala Thr Glu	605	610	615
Phe Ser Cys Arg Glu Leu Glu Ala Gly Ser Leu Val Tyr Val His	620	625	630
Cys Gly Gly Pro Ala Gln Asp Leu Thr Phe Arg Val Ser Asp Gly	635	640	645
Leu Gln Ala Ser Pro Pro Ala Thr Leu Lys Val Val Ala Ile Arg	650	655	660
Pro Ala Ile Gln Ile His Arg Ser Thr Gly Leu Arg Leu Ala Gln	665	670	675
Gly Ser Ala Met Pro Ile Leu Pro Ala Asn Leu Ser Val Glu Thr	680	685	690
Asn Ala Val Gly Gln Asp Val Ser Val Leu Phe Arg Val Thr Gly	695	700	705
Ala Leu Gln Phe Gly Glu Leu Gln Lys His Ser Thr Gly Gly Val	710	715	720
Glu Gly Ala Glu Trp Trp Ala Thr Gln Ala Phe His Gln Arg Asp	725	730	735
Val Glu Gln Gly Arg Val Arg Tyr Leu Ser Thr Asp Pro Gln His	740	745	750
His Ala Tyr Asp Thr Val Glu Asn Leu Ala Leu Glu Val Gln Val	755	760	765
Gly Gln Glu Ile Leu Ser Asn Leu Ser Phe Pro Val Thr Ile Gln	770	775	780
Arg Ala Thr Val Trp Met Leu Arg Leu Glu Pro Leu His Thr Gln	785	790	795
Asn Thr Gln Gln Glu Thr Leu Thr Thr Ala His Leu Glu Ala Thr	800	805	810
Leu Glu Glu Ala Gly Pro Ser Pro Pro Thr Phe His Tyr Glu Val	815	820	825
Val Gln Ala Pro Arg Lys Gly Asn Leu Gln Leu Gln Gly Thr Arg	830	835	840
Leu Ser Asp Gly Gln Gly Phe Thr Gln Asp Asp Ile Gln Ala Gly	845	850	855
Arg Val Thr Tyr Gly Ala Thr Ala Arg Ala Ser Glu Ala Val Glu	860	865	870
Asp Thr Phe Arg Phe Arg Val Thr Ala Pro Pro Tyr Phe Ser Pro	875	880	885
Leu Tyr Thr Phe Pro Ile His Ile Gly Gly Asp Pro Asp Ala Pro	890	895	900
Val Leu Thr Asn Val Leu Leu Val Val Pro Asp Gly Gly Glu Gly	905	910	915
Val Leu Ser Ala Asp His Leu Phe Val Lys Ser Leu Asn Ser Ala	920	925	930
Ser Tyr Leu Tyr Glu Val Met Glu Arg Pro Arg His Gly Arg Leu	935	940	945

[illegible]

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Ser Val Pro Glu Gly Gly Ser Leu Thr Leu Ala Pro Pro Leu Leu	1370	1375	1380
Arg Val Ser Gly Pro Tyr Phe Pro Thr Leu Leu Gly Leu Ser Leu	1385	1390	1395
Gln Val Leu Glu Pro Pro Gln His Gly Pro Leu Gln Lys Glu Asp	1400	1405	1410
Gly Pro Gln Ala Arg Thr Leu Ser Ala Phe Ser Trp Arg Met Val	1415	1420	1425
Glu Glu Gln Leu Ile Arg Tyr Val His Asp Gly Ser Glu Thr Leu	1430	1435	1440
Thr Asp Ser Phe Val Leu Met Ala Asn Ala Ser Glu Met Asp Arg	1445	1450	1455
Gln Ser His Pro Val Ala Phe Thr Val Thr Val Leu Pro Val Asn	1460	1465	1470
Asp Gln Pro Pro Ile Leu Thr Thr Asn Thr Gly Leu Gln Met Trp	1475	1480	1485
Glu Gly Ala Thr Ala Pro Ile Pro Ala Glu Ala Leu Arg Ser Thr	1490	1495	1500
Asp Gly Asp Ser Gly Ser Glu Asp Leu Val Tyr Thr Ile Glu Gln	1505	1510	1515
Pro Ser Asn Gly Arg Val Val Leu Arg Gly Ala Pro Gly Thr Glu	1520	1525	1530
Val Arg Ser Phe Thr Gln Ala Gln Leu Asp Gly Gly Leu Val Leu	1535	1540	1545
Phe Ser His Arg Gly Thr Leu Asp Gly Gly Phe Arg Phe Arg Leu	1550	1555	1560
Ser Asp Gly Glu His Thr Ser Pro Gly His Phe Phe Arg Val Thr	1565	1570	1575
Ala Gln Lys Gln Val Leu Leu Ser Leu Lys Gly Ser Gln Thr Leu	1580	1585	1590
Thr Val Cys Pro Gly Ser Val Gln Pro Leu Ser Ser Gln Thr Leu	1595	1600	1605
Arg Ala Ser Ser Ser Ala Gly Thr Asp Pro Gln Leu Leu Leu Tyr	1610	1615	1620
Arg Val Val Arg Gly Pro Gln Leu Gly Arg Leu Phe His Ala Gln	1625	1630	1635
Gln Asp Ser Thr Gly Glu Ala Leu Val Asn Phe Thr Gln Ala Glu	1640	1645	1650
Val Tyr Ala Gly Asn Ile Leu Tyr Glu His Glu Met Pro Pro Glu	1655	1660	1665
Pro Phe Trp Glu Ala His Asp Thr Leu Glu Leu Gln Leu Ser Ser	1670	1675	1680
Pro Pro Ala Arg Asp Val Ala Ala Thr Leu Ala Val Ala Val Ser	1685	1690	1695
Phe Glu Ala Ala Cys Pro Gln Arg Pro Ser His Leu Trp Lys Asn	1700	1705	1710
Lys Gly Leu Trp Val Pro Glu Gly Gln Arg Ala Arg Ile Thr Val	1715	1720	1725
Ala Ala Leu Asp Ala Ser Asn Leu Leu Ala Ser Val Pro Ser Pro	1730	1735	1740
Gln Arg Ser Glu His Asp Val Leu Phe Gln Val Thr Gln Phe Pro	1745	1750	1755
Ser Arg Gly Gln Leu Leu Val Ser Glu Glu Pro Leu His Ala Gly	1760	1765	1770
Gln Pro His Phe Leu Gln Ser Gln Leu Ala Ala Gly Gln Leu Val	1775	1780	1785

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Tyr	Ala	His	Gly	Gly	Gly	Gly	Thr	Gln	Gln	Asp	Gly	Phe	His	Phe
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Arg	Ala	His	Leu	Gln	Gly	Pro	Ala	Gly	Ala	Ser	Val	Ala	Gly	Pro
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Gln	Thr	Ser	Glu	Ala	Phe	Ala	Ile	Thr	Val	Arg	Asp	Val	Asn	Glu
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Arg	Pro	Pro	Gln	Pro	Gln	Ala	Ser	Val	Pro	Leu	Arg	Leu	Thr	Arg
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Gly	Ser	Arg	Ala	Pro	Ile	Ser	Arg	Ala	Gln	Leu	Ser	Val	Val	Asp
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Pro	Asp	Ser	Ala	Pro	Gly	Glu	Ile	Glu	Tyr	Glu	Val	Gln	Arg	Ala
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Pro	His	Asn	Gly	Phe	Leu	Ser	Leu	Val	Gly	Gly	Gly	Leu	Gly	Pro
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Val	Thr	Arg	Phe	Thr	Gln	Ala	Asp	Val	Asp	Ser	Gly	Arg	Leu	Ala
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Phe	Val	Ala	Asn	Gly	Ser	Ser	Val	Ala	Gly	Ile	Phe	Gln	Leu	Ser
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Asp	Ile	Leu	Pro	Ser	Ala	Ile	Glu	Val	Gln	Leu	Arg	Ala	Pro	Leu
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Glu	Val	Pro	Gln	Ala	Leu	Gly	Arg	Ser	Ser	Leu	Ser	Gln	Gln	Gln
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Leu	Arg	Val	Val	Ser	Asp	Arg	Glu	Glu	Pro	Glu	Ala	Ala	Tyr	Arg
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Pro	Thr	Ser	Ala	Phe	Ser	Gln	Phe	Gln	Ile	Asp	Gln	Gly	Glu	Val
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Leu	Ser	Val	Pro	Glu	Ala	Ala	Arg	Thr	Glu	Ala	Gly	Lys	Pro	Glu
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Ser	Ser	Thr	Pro	Thr	Gly	Glu	Pro	Gly	Pro	Met	Ala	Ser	Ser	Pro
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Glu Pro Ala Val Ala Lys Gly Gly Phe Leu Ser Phe Leu Glu Ala
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Asn Met Phe Ser Val Ile Ile Pro Met Cys Leu Val Leu Leu Leu
2225 2230 2235
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2240 2245 2250
Lys Thr Gly Lys His Asp Val Gln Val Leu Thr Ala Lys Pro Arg
2255 2260 2265
Asn Gly Leu Ala Gly Asp Thr Glu Thr Phe Arg Lys Val Glu Pro
2270 2275 2280
Gly Gln Ala Ile Pro Leu Thr Ala Val Pro Gly Gln Gly Pro Pro
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Trp	Asn	Tyr	Glu	Cys	Pro	Lys	Phe	Glu	Glu	Asp	Val	Leu	Ser	Ser
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Asp	Ile	Ile	Ile	Leu	Thr	Ile	Thr	Arg	Cys	Ile	Ala	Ile	Leu	Tyr
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Ile	Tyr	Phe	Gln	Phe	Gln	Asn	Leu	Arg	Gln	Leu	Gly	Ser	Lys	Tyr
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Asp	Glu	Val	Arg	Glu	Asn	Ile	Ala	Arg	Gly	Met	Ala	Ile	Leu	Gly
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Pro	Thr	Phe	Thr	Leu	Asp	Ala	Leu	Val	Glu	Cys	Leu	Val	Ile	Gly
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Val	Gly	Thr	Met	Ser	Gly	Val	Arg	Gln	Leu	Glu	Ile	Met	Cys	Cys
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Phe	Gly	Cys	Met	Ser	Val	Leu	Ala	Asn	Tyr	Phe	Val	Phe	Met	Thr
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Val	Leu	Glu	Glu	Glu	Glu	Asn	Lys	Pro	Asn	Pro	Val	Thr	Gln	Arg
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Val	Lys	Met	Ile	Met	Ser	Leu	Gly	Leu	Val	Leu	Val	His	Ala	His
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Ser Lys Gly Thr Glu Lys Ala Leu Ser Lys Leu His Glu Tyr Phe					
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Val Val Cys Glu Ala Val Ile Pro Ala Lys Val Val Arg Glu Val					
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Gln Asp Ala Ala Gln Asn Val Gly Ser Ser Asn Cys Ile Thr Leu					
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Asp	Gly	Pro	His	Phe	Pro	Leu	Ser	Leu	Ser	Thr	Cys	Leu	Phe	Gly	
				20					25					30	
Arg	Gly	Ile	Glu	Cys	Asp	Ile	Arg	Ile	Gln	Leu	Pro	Val	Val	Ser	
				35					40					45	
Lys	Gln	His	Cys	Lys	Ile	Glu	Ile	His	Glu	Gln	Glu	Ala	Ile	Leu	
				50					55					60	
His	Asn	Phe	Ser	Ser	Thr	Asn	Pro	Thr	Gln	Val	Asn	Gly	Ser	Val	
				65					70					75	
Ile	Asp	Glu	Pro	Val	Arg	Leu	Lys	His	Gly	Asp	Val	Ile	Thr	Ile	
				80					85					90	
Ile	Asp	Arg	Ser	Phe	Arg	Tyr	Glu	Asn	Glu	Ser	Leu	Gln	Ser	Gly	
				95					100					105	
Arg	Lys	Ser	Thr	Glu	Phe	Pro	Arg	Lys	Ile	Arg	Glu	Gln	Glu	Pro	
				110					115					120	
Ala	Arg	Arg	Val	Ser	Arg	Ser	Ser	Phe	Ser	Ser	Asp	Pro	Asp	Glu	
				125					130					135	
Lys	Ala	Gln	Asp	Ser	Lys	Ala	Tyr	Ser	Lys	Ile	Thr	Glu	Gly	Lys	
				140					145					150	
Val	Ser	Gly	Asn	Pro	Gln	Val	His	Ile	Lys	Asn	Val	Lys	Glu	Asp	
				155					160					165	
Ser	Thr	Ala	Asp	Asp	Ser	Lys	Asp	Ser	Val	Ala	Gln	Gly	Thr	Thr	
				170					175					180	
Asn	Val	His	Ser	Ser	Glu	His	Ala	Gly	Arg	Asn	Gly	Arg	Asn	Ala	
				185					190					195	

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Ala	Asp	Pro	Ile	Ser	Gly	Asp	Phe	Lys	Glu	Ile	Ser	Ser	Val	Lys	
				200					205					210	
Leu	Val	Ser	Arg	Tyr	Gly	Glu	Leu	Lys	Ser	Val	Pro	Thr	Thr	Gln	
				215					220					225	
Cys	Leu	Asp	Asn	Ser	Lys	Lys	Asn	Glu	Ser	Pro	Phe	Trp	Lys	Leu	
				230					235					240	
Tyr	Glu	Ser	Val	Lys	Lys	Glu	Leu	Asp	Val	Lys	Ser	Gln	Lys	Glu	
				245					250					255	
Asn	Val	Leu	Gln	Tyr	Cys	Arg	Lys	Ser	Gly	Leu	Gln	Thr	Asp	Tyr	
				260					265					270	
Ala	Thr	Glu	Lys	Glu	Ser	Ala	Asp	Gly	Leu	Gln	Gly	Glu	Thr	Gln	
				275					280					285	
Leu	Leu	Val	Ser	Arg	Lys	Ser	Arg	Pro	Lys	Ser	Gly	Gly	Ser	Gly	
				290					295					300	
His	Ala	Val	Ala	Glu	Pro	Ala	Ser	Pro	Glu	Gln	Glu	Leu	Asp	Gln	
				305					310					315	
Asn	Lys	Gly	Lys	Gly	Arg	Asp	Val	Glu	Ser	Val	Gln	Thr	Pro	Ser	
				320					325					330	
Lys	Ala	Val	Gly	Ala	Ser	Phe	Pro	Leu	Tyr	Glu	Pro	Ala	Lys	Met	
				335					340					345	
Lys	Thr	Pro	Val	Gln	Tyr	Ser	Gln	Gln	Gln	Asn	Ser	Pro	Gln	Lys	
				350					355					360	
His	Lys	Asn	Lys	Asp	Leu	Tyr	Thr	Thr	Gly	Arg	Arg	Glu	Ser	Val	
				365					370					375	
Asn	Leu	Gly	Lys	Ser	Glu	Gly	Phe	Lys	Ala	Gly	Asp	Lys	Thr	Leu	
				380					385					390	
Thr	Pro	Arg	Lys	Leu	Ser	Thr	Arg	Asn	Arg	Thr	Pro	Ala	Lys	Val	
				395					400					405	
Glu	Asp	Ala	Ala	Asp	Ser	Ala	Thr	Lys	Pro	Glu	Asn	Leu	Ser	Ser	
				410					415					420	
Lys	Thr	Arg	Gly	Ser	Ile	Pro	Thr	Asp	Val	Glu	Val	Leu	Pro	Thr	
				425					430					435	
Glu	Thr	Glu	Ile	His	Asn	Glu	Pro	Phe	Leu	Thr	Leu	Trp	Leu	Thr	
				440					445					450	
Gln	Val	Glu	Arg	Lys	Ile	Gln	Lys	Asp	Ser	Leu	Ser	Lys	Pro	Glu	
				455					460					465	
Lys	Leu	Gly	Thr	Thr	Ala	Gly	Gln	Met	Cys	Ser	Gly	Leu	Pro	Gly	
				470					475					480	
Leu	Ser	Ser	Val	Asp	Ile	Asn	Asn	Phe	Gly	Asp	Ser	Ile	Asn	Glu	
				485					490					495	
Ser	Glu	Gly	Ile	Pro	Leu	Lys	Arg	Arg	Arg	Val	Ser	Phe	Gly	Gly	
				500					505					510	
His	Leu	Arg	Pro	Glu	Leu	Phe	Asp	Glu	Asn	Leu	Pro	Pro	Asn	Thr	
				515					520					525	
Pro	Leu	Lys	Arg	Gly	Glu	Ala	Pro	Thr	Lys	Arg	Lys	Ser	Leu	Val	
				530					535					540	
Met	His	Thr	Pro	Pro	Val	Leu	Lys	Lys	Ile	Ile	Lys	Glu	Gln	Pro	
				545					550					555	
Gln	Pro	Ser	Gly	Lys	Gln	Glu	Ser	Gly	Ser	Glu	Ile	His	Val	Glu	
				560					565					570	
Val	Lys	Ala	Gln	Ser	Leu	Val	Ile	Ser	Pro	Pro	Ala	Pro	Ser	Pro	
				575					580					585	
Arg	Lys	Thr	Pro	Val	Ala	Ser	Asp	Gln	Arg	Arg	Arg	Ser	Cys	Lys	
				590					595					600	
Thr	Ala	Pro	Ala	Ser	Ser	Ser	Lys	Ser	Gln	Thr	Glu	Val	Pro	Lys	
				605					610					615	

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Arg Gly Gly Glu	Arg Val Ala Thr Cys	Leu Gln Lys Arg Val	Ser
620	625		630
Ile Ser Arg Ser	Gln His Asp Ile Leu	Gln Met Ile Cys Ser	Lys
635	640		645
Arg Arg Ser Gly	Ala Ser Glu Ala Asn	Leu Ile Val Ala Lys	Ser
650	655		660
Trp Ala Asp Val	Val Lys Leu Gly Ala	Lys Gln Thr Gln Thr	Lys
665	670		675
Val Ile Lys His	Gly Pro Gln Arg Ser	Met Asn Lys Arg Gln	Arg
680	685		690
Arg Pro Ala Thr	Pro Lys Lys Pro Val	Gly Glu Val His Ser	Gln
695	700		705
Phe Ser Thr Gly	His Ala Asn Ser Pro	Cys Thr Ile Ile Ile	Gly
710	715		720
Lys Ala His Thr	Glu Lys Val His Val	Pro Ala Arg Pro Tyr	Arg
725	730		735
Val Leu Asn Asn	Phe Ile Ser Asn Gln	Lys Met Asp Phe Lys	Glu
740	745		750
Asp Leu Ser Gly	Ile Ala Glu Met Phe	Lys Thr Pro Val Lys	Glu
755	760		765
Gln Pro Gln Leu	Thr Ser Thr Cys His	Ile Ala Ile Ser Asn	Ser
770	775		780
Glu Asn Leu Leu	Gly Lys Gln Phe Gln	Gly Thr Asp Ser Gly	Glu
785	790		795
Glu Pro Leu Leu	Pro Thr Ser Glu Ser	Phe Gly Gly Asn Val	Phe
800	805		810
Phe Ser Ala Gln	Asn Ala Ala Lys Gln	Pro Ser Asp Lys Cys	Ser
815	820		825
Ala Ser Pro Pro	Leu Arg Arg Gln Cys	Ile Arg Glu Asn Gly	Asn
830	835		840
Val Ala Lys Thr	Pro Arg Asn Thr Tyr	Lys Met Thr Ser Leu	Glu
845	850		855
Thr Lys Thr Ser	Asp Thr Glu Thr Glu	Pro Ser Lys Thr Val	Ser
860	865		870
Thr Val Asn Arg	Ser Gly Arg Ser Thr	Glu Phe Arg Asn Ile	Gln
875	880		885
Lys Leu Pro Val	Glu Ser Lys Ser Glu	Glu Thr Asn Thr Glu	Ile
890	895		900
Val Glu Cys Ile	Leu Lys Arg Gly Gln	Lys Ala Thr Leu Leu	Gln
905	910		915
Gln Arg Arg Glu	Gly Glu Met Lys Glu	Ile Glu Arg Pro Phe	Glu
920	925		930
Thr Tyr Lys Glu	Asn Ile Glu Leu Lys	Glu Asn Asp Glu Lys	Met
935	940		945
Lys Ala Met Lys	Arg Ser Arg Thr Trp	Gly Gln Lys Cys Ala	Pro
950	955		960
Met Ser Asp Leu	Thr Asp Leu Lys Ser	Leu Pro Asp Thr Glu	Leu
965	970		975
Met Lys Asp Thr	Ala Arg Gly Gln Asn	Leu Leu Gln Thr Gln	Asp
980	985		990
His Ala Lys Ala	Pro Lys Ser Glu Lys	Gly Lys Ile Thr Lys	Met
995	1000		1005
Pro Cys Gln Ser	Leu Gln Pro Glu Pro	Ile Asn Thr Pro Thr	His
1010	1015		1020
Thr Lys Gln Gln	Leu Lys Ala Ser Leu	Gly Lys Val Gly Val	Lys
1025	1030		1035

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Glu	Glu	Leu	Leu	Ala	Val	Gly	Lys	Phe	Thr	Arg	Thr	Ser	Gly	Glu	1040	1045	1050
Thr	Thr	His	Thr	His	Arg	Glu	Pro	Ala	Gly	Asp	Gly	Lys	Ser	Ile	1055	1060	1065
Arg	Thr	Phe	Lys	Glu	Ser	Pro	Lys	Gln	Ile	Leu	Asp	Pro	Ala	Ala	1070	1075	1080
Arg	Val	Thr	Gly	Met	Lys	Lys	Trp	Pro	Arg	Thr	Pro	Lys	Glu	Glu	1085	1090	1095
Ala	Gln	Ser	Leu	Glu	Asp	Leu	Ala	Gly	Phe	Lys	Glu	Leu	Phe	Gln	1100	1105	1110
Thr	Pro	Gly	Pro	Ser	Glu	Glu	Ser	Met	Thr	Asp	Glu	Lys	Thr	Thr	1115	1120	1125
Lys	Ile	Ala	Cys	Lys	Ser	Pro	Pro	Pro	Glu	Ser	Val	Asp	Thr	Pro	1130	1135	1140
Thr	Ser	Thr	Lys	Gln	Trp	Pro	Lys	Arg	Ser	Leu	Arg	Lys	Ala	Asp	1145	1150	1155
Val	Glu	Glu	Glu	Phe	Leu	Ala	Leu	Arg	Lys	Leu	Thr	Pro	Ser	Ala	1160	1165	1170
Gly	Lys	Ala	Met	Leu	Thr	Pro	Lys	Pro	Ala	Gly	Gly	Asp	Glu	Lys	1175	1180	1185
Asp	Ile	Lys	Ala	Phe	Met	Gly	Thr	Pro	Val	Gln	Lys	Leu	Asp	Leu	1190	1195	1200
Ala	Gly	Thr	Leu	Pro	Gly	Ser	Lys	Arg	Gln	Leu	Gln	Thr	Pro	Lys	1205	1210	1215
Glu	Lys	Ala	Gln	Ala	Leu	Glu	Asp	Leu	Ala	Gly	Phe	Lys	Glu	Leu	1220	1225	1230
Phe	Gln	Thr	Pro	Gly	His	Thr	Glu	Glu	Leu	Val	Ala	Ala	Gly	Lys	1235	1240	1245
Thr	Thr	Lys	Ile	Pro	Cys	Asp	Ser	Pro	Gln	Ser	Asp	Pro	Val	Asp	1250	1255	1260
Thr	Pro	Thr	Ser	Thr	Lys	Gln	Arg	Pro	Lys	Arg	Ser	Ile	Arg	Lys	1265	1270	1275
Ala	Asp	Val	Glu	Gly	Glu	Leu	Leu	Ala	Cys	Arg	Asn	Leu	Met	Pro	1280	1285	1290
Ser	Ala	Gly	Lys	Ala	Met	His	Thr	Pro	Lys	Pro	Ser	Val	Gly	Glu	1295	1300	1305
Glu	Lys	Asp	Ile	Ile	Ile	Phe	Val	Gly	Thr	Pro	Val	Gln	Lys	Leu	1310	1315	1320
Asp	Leu	Thr	Glu	Asn	Leu	Thr	Gly	Ser	Lys	Arg	Arg	Pro	Gln	Thr	1325	1330	1335
Pro	Lys	Glu	Glu	Ala	Gln	Ala	Leu	Glu	Asp	Leu	Thr	Gly	Phe	Lys	1340	1345	1350
Glu	Leu	Phe	Gln	Thr	Pro	Gly	His	Thr	Glu	Glu	Ala	Val	Ala	Ala	1355	1360	1365
Gly	Lys	Thr	Thr	Lys	Met	Pro	Cys	Glu	Ser	Ser	Pro	Pro	Glu	Ser	1370	1375	1380
Ala	Asp	Thr	Pro	Thr	Ser	Thr	Arg	Arg	Gln	Pro	Lys	Thr	Pro	Leu	1385	1390	1395
Glu	Lys	Arg	Asp	Val	Gln	Lys	Glu	Leu	Ser	Ala	Leu	Lys	Lys	Leu	1400	1405	1410
Thr	Gln	Thr	Ser	Gly	Glu	Thr	Thr	His	Thr	Asp	Lys	Val	Pro	Gly	1415	1420	1425
Gly	Glu	Asp	Lys	Ser	Ile	Asn	Ala	Phe	Arg	Glu	Thr	Ala	Lys	Gln	1430	1435	1440
Lys	Leu	Asp	Pro	Ala	Ala	Ser	Val	Thr	Gly	Ser	Lys	Arg	His	Pro	1445	1450	1455

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Lys Thr Lys Glu Lys Ala Gln Pro Leu Glu Asp Leu Ala Gly Trp		
1460	1465	1470
Lys Glu Leu Phe Gln Thr Pro Val Cys Thr Asp Lys Pro Thr Thr		
1475	1480	1485
His Glu Lys Thr Thr Lys Ile Ala Cys Arg Ser Gln Pro Asp Pro		
1490	1495	1500
Val Asp Thr Pro Thr Ser Ser Lys Pro Gln Ser Lys Arg Ser Leu		
1505	1510	1515
Arg Lys Val Asp Val Glu Glu Glu Phe Phe Ala Leu Arg Lys Arg		
1520	1525	1530
Thr Pro Ser Ala Gly Lys Ala Met His Thr Pro Lys Pro Ala Val		
1535	1540	1545
Ser Gly Glu Lys Asn Ile Tyr Ala Phe Met Gly Thr Pro Val Gln		
1550	1555	1560
Lys Leu Asp Leu Thr Glu Asn Leu Thr Gly Ser Lys Arg Arg Leu		
1565	1570	1575
Gln Thr Pro Lys Glu Lys Ala Gln Ala Leu Glu Asp Leu Ala Gly		
1580	1585	1590
Phe Lys Glu Leu Phe Gln Thr Arg Gly His Thr Glu Glu Ser Met		
1595	1600	1605
Thr Asn Asp Lys Thr Ala Lys Val Ala Cys Lys Ser Ser Gln Pro		
1610	1615	1620
Asp Leu Asp Lys Asn Pro Ala Ser Ser Lys Arg Arg Leu Lys Thr		
1625	1630	1635
Ser Leu Gly Lys Val Gly Val Lys Glu Glu Leu Leu Ala Val Gly		
1640	1645	1650
Lys Leu Thr Gln Thr Ser Gly Glu Thr Thr His Thr His Thr Glu		
1655	1660	1665
Pro Thr Gly Asp Gly Lys Ser Met Lys Ala Phe Met Glu Ser Pro		
1670	1675	1680
Lys Gln Ile Leu Asp Ser Ala Ala Ser Leu Thr Gly Ser Lys Arg		
1685	1690	1695
Gln Leu Arg Thr Pro Lys Gly Lys Ser Glu Val Pro Glu Asp Leu		
1700	1705	1710
Ala Gly Phe Ile Glu Leu Phe Gln Thr Pro Ser His Thr Lys Glu		
1715	1720	1725
Ser Met Thr Asn Glu Lys Thr Thr Lys Val Ser Tyr Arg Ala Ser		
1730	1735	1740
Gln Pro Asp Leu Val Asp Thr Pro Thr Ser Ser Lys Pro Gln Pro		
1745	1750	1755
Lys Arg Ser Leu Arg Lys Ala Asp Thr Glu Glu Glu Phe Leu Ala		
1760	1765	1770
Phe Arg Lys Gln Thr Pro Ser Ala Gly Lys Ala Met His Thr Pro		
1775	1780	1785
Lys Pro Ala Val Gly Glu Glu Lys Asp Ile Asn Thr Phe Leu Gly		
1790	1795	1800
Thr Pro Val Gln Lys Leu Asp Gln Pro Gly Asn Leu Pro Gly Ser		
1805	1810	1815
Asn Arg Arg Leu Gln Thr Arg Lys Glu Lys Ala Gln Ala Leu Glu		
1820	1825	1830
Glu Leu Thr Gly Phe Arg Glu Leu Phe Gln Thr Pro Cys Thr Asp		
1835	1840	1845
Asn Pro Thr Thr Asp Glu Lys Thr Thr Lys Lys Ile Leu Cys Lys		
1850	1855	1860
Ser Pro Gln Ser Asp Pro Ala Asp Thr Pro Thr Asn Thr Lys Gln		
1865	1870	1875

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Arg	Pro	Lys	Arg	Ser	Leu	Lys	Lys	Ala	Asp	Val	Glu	Glu	Glu	Phe
					1880				1885					1890
Leu	Ala	Phe	Arg	Lys	Leu	Thr	Pro	Ser	Ala	Gly	Lys	Ala	Met	His
					1895				1900					1905
Thr	Pro	Lys	Ala	Ala	Val	Gly	Glu	Glu	Lys	Asp	Ile	Asn	Thr	Phe
					1910				1915					1920
Val	Gly	Thr	Pro	Val	Glu	Lys	Leu	Asp	Leu	Leu	Gly	Asn	Leu	Pro
					1925				1930					1935
Gly	Ser	Lys	Arg	Arg	Pro	Gln	Thr	Pro	Lys	Glu	Lys	Ala	Lys	Ala
					1940				1945					1950
Leu	Glu	Asp	Leu	Ala	Gly	Phe	Lys	Glu	Leu	Phe	Gln	Thr	Pro	Gly
					1955				1960					1965
His	Thr	Glu	Glu	Ser	Met	Thr	Asp	Asp	Lys	Ile	Thr	Glu	Val	Ser
					1970				1975					1980
Cys	Lys	Ser	Pro	Gln	Pro	Asp	Pro	Val	Lys	Thr	Pro	Thr	Ser	Ser
					1985				1990					1995
Lys	Gln	Arg	Leu	Lys	Ile	Ser	Leu	Gly	Lys	Val	Gly	Val	Lys	Glu
					2000				2005					2010
Glu	Val	Leu	Pro	Val	Gly	Lys	Leu	Thr	Gln	Thr	Ser	Gly	Lys	Thr
					2015				2020					2025
Thr	Gln	Thr	His	Arg	Glu	Thr	Ala	Gly	Asp	Gly	Lys	Ser	Ile	Lys
					2030				2035					2040
Ala	Phe	Lys	Glu	Ser	Ala	Lys	Gln	Met	Leu	Asp	Pro	Ala	Asn	Tyr
					2045				2050					2055
Gly	Thr	Gly	Met	Glu	Arg	Trp	Pro	Arg	Thr	Pro	Lys	Glu	Glu	Ala
					2060				2065					2070
Gln	Ser	Leu	Glu	Asp	Leu	Ala	Gly	Phe	Lys	Glu	Leu	Phe	Gln	Thr
					2075				2080					2085
Pro	Asp	His	Thr	Glu	Glu	Ser	Thr	Thr	Asp	Asp	Lys	Thr	Thr	Lys
					2090				2095					2100
Ile	Ala	Cys	Lys	Ser	Pro	Pro	Pro	Glu	Ser	Met	Asp	Thr	Pro	Thr
					2105				2110					2115
Ser	Thr	Arg	Arg	Arg	Pro	Lys	Thr	Pro	Leu	Gly	Lys	Arg	Asp	Ile
					2120				2125					2130
Val	Glu	Glu	Leu	Ser	Ala	Leu	Lys	Gln	Leu	Thr	Gln	Thr	Thr	His
					2135				2140					2145
Thr	Asp	Lys	Val	Pro	Gly	Asp	Glu	Asp	Lys	Gly	Ile	Asn	Val	Phe
					2150				2155					2160
Arg	Glu	Thr	Ala	Lys	Gln	Lys	Leu	Asp	Pro	Ala	Ala	Ser	Val	Thr
					2165				2170					2175
Gly	Ser	Lys	Arg	Gln	Pro	Arg	Thr	Pro	Lys	Gly	Lys	Ala	Gln	Pro
					2180				2185					2190
Leu	Glu	Asp	Leu	Ala	Gly	Leu	Lys	Glu	Leu	Phe	Gln	Thr	Pro	Ile
					2195				2200					2205
Cys	Thr	Asp	Lys	Pro	Thr	Thr	His	Glu	Lys	Thr	Thr	Lys	Ile	Ala
					2210				2215					2220
Cys	Arg	Ser	Pro	Gln	Pro	Asp	Pro	Val	Gly	Thr	Pro	Thr	Ile	Phe
					2225				2230					2235
Lys	Pro	Gln	Ser	Lys	Arg	Ser	Leu	Arg	Lys	Ala	Asp	Val	Glu	Glu
					2240				2245					2250
Glu	Ser	Leu	Ala	Leu	Arg	Lys	Arg	Thr	Pro	Ser	Val	Gly	Lys	Ala
					2255				2260					2265
Met	Asp	Thr	Pro	Lys	Pro	Ala	Gly	Gly	Asp	Glu	Lys	Asp	Met	Lys
					2270				2275					2280
Ala	Phe	Met	Gly	Thr	Pro	Val	Gln	Lys	Leu	Asp	Leu	Pro	Gly	Asn
					2285				2290					2295

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Leu Pro Gly Ser Lys Arg Trp Pro Gln Thr	Pro Lys Glu Lys Ala
2300	2310
Gln Ala Leu Glu Asp Leu Ala Gly Phe Lys	Glu Leu Phe Gln Thr
2315	2325
Pro Gly Thr Asp Lys Pro Thr Thr Asp Glu	Lys Thr Thr Lys Ile
2330	2340
Ala Cys Lys Ser Pro Gln Pro Asp Pro Val	Asp Thr Pro Ala Ser
2345	2355
Thr Lys Gln Arg Pro Lys Arg Asn Leu Arg	Lys Ala Asp Val Glu
2360	2370
Glu Glu Phe Leu Ala Leu Arg Lys Arg Thr	Pro Ser Ala Gly Lys
2375	2385
Ala Met Asp Thr Pro Lys Pro Ala Val Ser	Asp Glu Lys Asn Ile
2390	2400
Asn Thr Phe Val Glu Thr Pro Val Gln Lys	Leu Asp Leu Leu Gly
2405	2415
Asn Leu Pro Gly Ser Lys Arg Gln Pro Gln	Thr Pro Lys Glu Lys
2420	2430
Ala Glu Ala Leu Glu Asp Leu Val Gly Phe	Lys Glu Leu Phe Gln
2435	2445
Thr Pro Gly His Thr Glu Glu Ser Met Thr	Asp Asp Lys Ile Thr
2450	2460
Glu Val Ser Cys Lys Ser Pro Gln Pro Glu	Ser Phe Lys Thr Ser
2465	2475
Arg Ser Ser Lys Gln Arg Leu Lys Ile Pro	Leu Val Lys Val Asp
2480	2490
Met Lys Glu Glu Pro Leu Ala Val Ser Lys	Leu Thr Arg Thr Ser
2495	2505
Gly Glu Thr Thr Gln Thr His Thr Glu Pro	Thr Gly Asp Ser Lys
2510	2520
Ser Ile Lys Ala Phe Lys Glu Ser Pro Lys	Gln Ile Leu Asp Pro
2525	2535
Ala Ala Ser Val Thr Gly Ser Arg Arg Gln	Leu Arg Thr Arg Lys
2540	2550
Glu Lys Ala Arg Ala Leu Glu Asp Leu Val	Asp Phe Lys Glu Leu
2555	2565
Phe Ser Ala Pro Gly His Thr Glu Glu Ser	Met Thr Ile Asp Lys
2570	2580
Asn Thr Lys Ile Pro Cys Lys Ser Pro Pro	Pro Glu Leu Thr Asp
2585	2595
Thr Ala Thr Ser Thr Lys Arg Cys Pro Lys	Thr Arg Leu Arg Lys
2600	2610
Glu Val Lys Glu Glu Leu Ser Ala Val Glu	Arg Leu Thr Gln Thr
2615	2625
Ser Gly Gln Ser Thr His Thr His Lys Glu	Pro Ala Ser Gly Asp
2630	2640
Glu Gly Ile Lys Val Leu Lys Gln Arg Ala	Lys Lys Lys Pro Asn
2645	2655
Pro Val Glu Glu Glu Pro Ser Arg Arg Arg	Pro Arg Ala Pro Lys
2660	2670
Glu Lys Ala Gln Pro Leu Glu Asp Leu Ala	Gly Phe Thr Glu Leu
2675	2685
Ser Glu Thr Ser Gly His Thr Gln Glu Ser	Leu Thr Ala Gly Lys
2690	2700
Ala Thr Lys Ile Pro Cys Glu Ser Pro Pro	Leu Glu Val Val Asp
2705	2715

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Thr Thr Ala Ser Thr Lys Arg His Leu Arg Thr Arg Val Gln Lys	2720	2725	2730
Val Gln Val Lys Glu Glu Pro Ser Ala Val Lys Phe Thr Gln Thr	2735	2740	2745
Ser Gly Glu Thr Thr Asp Ala Asp Lys Glu Pro Ala Gly Glu Asp	2750	2755	2760
Lys Gly Ile Lys Ala Leu Lys Glu Ser Ala Lys Gln Thr Pro Ala	2765	2770	2775
Pro Ala Ala Ser Val Thr Gly Ser Arg Arg Arg Pro Arg Ala Pro	2780	2785	2790
Arg Glu Ser Ala Gln Ala Ile Glu Asp Leu Ala Gly Phe Lys Asp	2795	2800	2805
Pro Ala Ala Gly His Thr Glu Glu Ser Met Thr Asp Asp Lys Thr	2810	2815	2820
Thr Lys Ile Pro Cys Lys Ser Ser Pro Glu Leu Glu Asp Thr Ala	2825	2830	2835
Thr Ser Ser Lys Arg Arg Pro Arg Thr Arg Ala Gln Lys Val Glu	2840	2845	2850
Val Lys Glu Glu Leu Leu Ala Val Gly Lys Leu Thr Gln Thr Ser	2855	2860	2865
Gly Glu Thr Thr His Thr Asp Lys Glu Pro Val Gly Glu Gly Lys	2870	2875	2880
Gly Thr Lys Ala Phe Lys Gln Pro Ala Lys Arg Lys Leu Asp Ala	2885	2890	2895
Glu Asp Val Ile Gly Ser Arg Arg Gln Pro Arg Ala Pro Lys Glu	2900	2905	2910
Lys Ala Gln Pro Leu Glu Asp Leu Ala Ser Phe Gln Glu Leu Ser	2915	2920	2925
Gln Thr Pro Gly His Thr Glu Glu Leu Ala Asn Gly Ala Ala Asp	2930	2935	2940
Ser Phe Thr Ser Ala Pro Lys Gln Thr Pro Asp Ser Gly Lys Pro	2945	2950	2955
Leu Lys Ile Ser Arg Arg Val Leu Arg Ala Pro Lys Val Glu Pro	2960	2965	2970
Val Gly Asp Val Val Ser Thr Arg Asp Pro Val Lys Ser Gln Ser	2975	2980	2985
Lys Ser Asn Thr Ser Leu Pro Pro Leu Pro Phe Lys Arg Gly Gly	2990	2995	3000
Gly Lys Asp Gly Ser Val Thr Gly Thr Lys Arg Leu Arg Cys Met	3005	3010	3015
Pro Ala Pro Glu Glu Ile Val Glu Glu Leu Pro Ala Ser Lys Lys	3020	3025	3030
Gln Arg Val Ala Pro Arg Ala Arg Gly Lys Ser Ser Glu Pro Val	3035	3040	3045
Val Ile Met Lys Arg Ser Leu Arg Thr Ser Ala Lys Arg Ile Glu	3050	3055	3060
Pro Ala Glu Glu Leu Asn Ser Asn Asp Met Lys Thr Asn Lys Glu	3065	3070	3075
Glu His Lys Leu Gln Asp Ser Val Pro Glu Asn Lys Gly Ile Ser	3080	3085	3090
Leu Arg Ser Arg Arg Gln Asn Lys Thr Glu Ala Glu Gln Gln Ile	3095	3100	3105
Thr Glu Val Phe Val Leu Ala Glu Arg Ile Glu Ile Asn Arg Asn	3110	3115	3120
Glu Lys Lys Pro Met Lys Thr Ser Pro Glu Met Asp Ile Gln Asn	3125	3130	3135

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Pro Asp Asp Gly Ala Arg Lys Pro Ile Pro Arg Asp Lys Val Thr
3140 3145 3150
Glu Asn Lys Arg Cys Leu Arg Ser Ala Arg Gln Asn Glu Ser Ser
3155 3160 3165
Gln Pro Lys Val Ala Glu Glu Ser Gly Gly Gln Lys Ser Ala Lys
3170 3175 3180
Val Leu Met Gln Asn Gln Lys Gly Lys Gly Glu Ala Gly Asn Ser
3185 3190 3195
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3200 3205 3210
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3215 3220 3225
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<210> 23
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 <212> DNA

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<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 238349.4c

<400> 23

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<210> 24

<211> 1228

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 402917.3c

<400> 24

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<210> 25

<211> 1216

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 406330.1

<400> 25

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tttaaagaa ggtaataat catacacaga aatcctaaca ttatattccc aaatctcaa 180
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gaactcccag tcatgttggt accctggaca gtgcctaact ccttacagaa gggagtga 420
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aaggcaaacc aatttgttct gtgcaacaaa ctcaaatgt ggaccagttc cctcagccct 540
cattaaacta attaaactga tgggtatcat gcttctactc catggtgaac tgaagcagag 600
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<210> 26

<211> 935

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 2516070CB1

<400> 26

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cgaccgcgcg cgcgcccatg tggcacgcgt gcgcacgcat ctggccccct acagcgacga 660
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<210> 27

<211> 267

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2516070CD1

<400> 27

Met Lys Ala Ala Val Leu Thr Leu Ala Val Leu Phe Leu Thr Gly

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Pro Trp Asp Arg Val Lys Asp Leu Ala Thr Val Tyr Val Asp Val			
35	40	45	
Leu Lys Asp Ser Gly Arg Asp Tyr Val Ser Gln Phe Glu Gly Ser			
50	55	60	
Ala Leu Gly Lys Gln Leu Asn Leu Lys Leu Leu Asp Asn Trp Asp			
65	70	75	
Ser Val Thr Ser Thr Phe Ser Lys Leu Arg Glu Gln Leu Gly Pro			
80	85	90	
Val Thr Gln Glu Phe Trp Asp Asn Leu Glu Lys Glu Thr Glu Gly			
95	100	105	
Leu Arg Gln Glu Met Ser Lys Asp Leu Glu Glu Val Lys Ala Lys			
110	115	120	
Val Gln Pro Tyr Leu Asp Asp Phe Gln Lys Lys Trp Gln Glu Glu			
125	130	135	
Met Glu Leu Tyr Arg Gln Lys Val Glu Pro Leu Arg Ala Glu Leu			
140	145	150	
Gln Glu Gly Ala Arg Gln Lys Leu His Glu Leu Gln Glu Lys Leu			
155	160	165	
Ser Pro Leu Gly Glu Glu Met Arg Asp Arg Ala Arg Ala His Val			
170	175	180	
Ala Arg Val Arg Thr His Leu Ala Pro Tyr Ser Asp Glu Leu Arg			
185	190	195	
Gln Arg Leu Ala Ala Arg Leu Glu Ala Leu Lys Glu Asn Gly Gly			
200	205	210	
Ala Arg Leu Ala Glu Tyr His Ala Lys Ala Thr Glu His Leu Ser			
215	220	225	
Thr Leu Ser Glu Lys Ala Lys Pro Ala Leu Glu Asp Leu Arg Gln			
230	235	240	
Gly Leu Leu Pro Val Leu Glu Ser Phe Lys Val Ser Phe Leu Ser			
245	250	255	
Ala Leu Glu Glu Tyr Thr Lys Lys Leu Asn Thr Gln			
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<210> 28

<211> 1656

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 167507CB1

<400> 28

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agctgtggat	gctgctctga	agaaatataa	cagtcaaaac	caaagtaaca	accagtttgt	360
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gtacaaggat	gctgcaaaa	cagccactgg	agaatgcacg	gcaaccgtgg	ggaagaggag	540
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<210> 29
<211> 427
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 167507CD1
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40

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230 235 240
Ile Ala Ser Phe Ser Gln Asn Cys Asp Ile Tyr Pro Gly Lys Asp
245 250 255
Phe Val Gln Pro Pro Thr Lys Ile Cys Val Gly Cys Pro Arg Asp
260 265 270
Ile Pro Thr Asn Ser Pro Glu Leu Glu Glu Thr Leu Thr His Thr
275 280 285
Ile Thr Lys Leu Asn Ala Glu Asn Asn Ala Thr Phe Tyr Phe Lys
290 295 300
Ile Asp Asn Val Lys Lys Ala Arg Val Gln Val Val Ala Gly Lys
305 310 315
Lys Tyr Phe Ile Asp Phe Val Ala Arg Glu Thr Thr Cys Ser Lys
320 325 330
Glu Ser Asn Glu Glu Leu Thr Glu Ser Cys Glu Thr Lys Lys Leu
335 340 345
Gly Gln Ser Leu Asp Cys Asn Ala Glu Val Tyr Val Val Pro Trp
350 355 360
Glu Lys Lys Ile Tyr Pro Thr Val Asn Cys Gln Pro Leu Gly Met
365 370 375
Ile Ser Leu Met Lys Arg Pro Pro Gly Phe Ser Pro Phe Arg Ser
380 385 390
Ser Arg Ile Gly Glu Ile Lys Glu Glu Thr Thr Ser His Leu Arg
395 400 405
Ser Cys Glu Tyr Lys Gly Arg Pro Pro Lys Ala Gly Ala Glu Pro
410 415 420
Ala Ser Glu Arg Glu Val Ser
425

<210> 30

<211> 617

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3860413CB1

<400> 30

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<210> 31

<211> 61

<212> PRT

<213> Homo sapiens

PA-0035 US

<220>

<221> misc_feature

<223> Incyte ID No: 3860413CD1

<400> 31

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Ala	Gly	Ser	Cys	Lys	Cys	Lys	Glu	Cys	Lys	Cys	Thr	Ser	Cys	Lys
			20						25					30
Lys	Ser	Cys	Cys	Ser	Cys	Cys	Pro	Val	Gly	Cys	Ala	Lys	Cys	Ala
			35						40					45
Gln	Gly	Cys	Ile	Cys	Lys	Gly	Ala	Ser	Asp	Lys	Cys	Ser	Cys	Cys
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<210> 32

<211> 1629

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3393861CB1

<400> 32

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<210> 33

<211> 488

PA-0035 US

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3393861CD1

<400> 33

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Leu	Leu	Leu	Leu	Leu	Cys	Val	Phe	Leu	Val	Lys	Ser	Gln	Gly	Val
				20					25					30
Asn	Asp	Asn	Glu	Glu	Gly	Phe	Phe	Ser	Ala	Arg	Gly	His	Arg	Pro
				35					40					45
Leu	Asp	Lys	Lys	Arg	Glu	Glu	Ala	Pro	Ser	Leu	Arg	Pro	Ala	Pro
				50					55					60
Pro	Pro	Ile	Ser	Gly	Gly	Gly	Tyr	Arg	Ala	Arg	Pro	Ala	Lys	Ala
				65					70					75
Ala	Ala	Thr	Gln	Lys	Lys	Val	Glu	Arg	Lys	Ala	Pro	Asp	Ala	Gly
				80					85					90
Gly	Cys	Leu	His	Ala	Asp	Pro	Asp	Leu	Gly	Val	Leu	Cys	Pro	Thr
				95					100					105
Gly	Cys	Gln	Leu	Gln	Glu	Ala	Leu	Leu	Gln	Gln	Glu	Arg	Pro	Ile
				110					115					120
Arg	Asn	Ser	Val	Asp	Glu	Leu	Asn	Asn	Asn	Val	Glu	Ala	Val	Ser
				125					130					135
Gln	Thr	Ser	Ser	Ser	Ser	Phe	Gln	Tyr	Met	Tyr	Leu	Leu	Lys	Asp
				140					145					150
Leu	Trp	Gln	Lys	Arg	Gln	Lys	Gln	Val	Lys	Asp	Asn	Glu	Asn	Val
				155					160					165
Val	Asn	Glu	Tyr	Ser	Ser	Glu	Leu	Glu	Lys	His	Gln	Leu	Tyr	Ile
				170					175					180
Asp	Glu	Thr	Val	Asn	Ser	Asn	Ile	Pro	Thr	Asn	Leu	Arg	Val	Leu
				185					190					195
Arg	Ser	Ile	Leu	Glu	Asn	Leu	Arg	Ser	Lys	Ile	Gln	Lys	Leu	Glu
				200					205					210
Ser	Asp	Val	Ser	Ala	Gln	Met	Glu	Tyr	Cys	Arg	Thr	Pro	Cys	Thr
				215					220					225
Val	Ser	Cys	Asn	Ile	Pro	Val	Val	Ser	Gly	Lys	Glu	Cys	Glu	Glu
				230					235					240
Ile	Ile	Arg	Lys	Gly	Gly	Glu	Thr	Ser	Glu	Met	Tyr	Leu	Ile	Gln
				245					250					255
Pro	Asp	Ser	Ser	Val	Lys	Pro	Tyr	Arg	Val	Tyr	Cys	Asp	Met	Asn
				260					265					270
Thr	Glu	Asn	Gly	Gly	Trp	Thr	Val	Ile	Gln	Asn	Arg	Gln	Asp	Gly
				275					280					285
Ser	Phe	Asp	Phe	Gly	Arg	Lys	Trp	Asp	Pro	Tyr	Lys	Gln	Gly	Phe
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Gly	Asn	Val	Ala	Thr	Asn	Thr	Asp	Gly	Lys	Asn	Tyr	Cys	Gly	Leu
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Pro	Gly	Glu	Tyr	Trp	Leu	Gly	Asn	Asp	Lys	Ile	Ser	Gln	Leu	Thr
				320					325					330
Arg	Met	Gly	Pro	Thr	Glu	Leu	Leu	Ile	Glu	Met	Glu	Asp	Trp	Lys
				335					340					345
Gly	Asp	Lys	Val	Lys	Ala	His	Tyr	Gly	Gly	Phe	Thr	Val	Gln	Asn
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Glu Ala Asn Lys Tyr Gln Ile Ser Val Asn Lys Tyr Arg Gly Thr
365 370 375
Ala Gly Asn Ala Leu Met Asp Gly Ala Ser Gln Leu Met Gly Glu
380 385 390
Asn Arg Thr Met Thr Ile His Asn Gly Met Phe Phe Ser Thr Tyr
395 400 405
Asp Arg Asp Asn Asp Gly Trp Leu Thr Ser Asp Pro Arg Lys Gln
410 415 420
Cys Ser Lys Glu Asp Gly Gly Gly Trp Trp Tyr Asn Arg Cys His
425 430 435
Ala Ala Asn Pro Asn Gly Arg Tyr Tyr Trp Gly Gly Gln Tyr Thr
440 445 450
Trp Asp Met Ala Lys His Gly Thr Asp Asp Gly Val Val Trp Met
455 460 465
Asn Trp Lys Gly Ser Trp Tyr Ser Met Lys Lys Met Ser Met Lys
470 475 480
Ile Arg Pro Phe Phe Pro Gln Gln
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<210> 34

<211> 852

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2517374CB1

<400> 34

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gctgtccttg gttcttacag tcttgagcct cctacctctg ctggaagccc agatccatt 180
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<210> 35

<211> 201

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2517374CD1

<400> 35

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PA-0035 US

Leu Glu Ala Gln Ile Pro Leu Cys Ala Asn Leu Val Pro Val Pro
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Ile Thr Asn Ala Thr Leu Asp Arg Ile Thr Gly Lys Trp Phe Tyr
35 40 45
Ile Ala Ser Ala Phe Arg Asn Glu Glu Tyr Asn Lys Ser Val Gln
50 55 60
Glu Ile Gln Ala Thr Phe Phe Tyr Phe Thr Pro Asn Lys Thr Glu
65 70 75
Asp Thr Ile Phe Leu Arg Glu Tyr Gln Thr Arg Gln Asp Gln Cys
80 85 90
Ile Tyr Asn Thr Thr Tyr Leu Asn Val Gln Arg Glu Asn Gly Thr
95 100 105
Ile Ser Arg Tyr Val Gly Gly Gln Glu His Phe Ala His Leu Leu
110 115 120
Ile Leu Arg Asp Thr Lys Thr Tyr Met Leu Ala Phe Asp Val Asn
125 130 135
Asp Glu Lys Asn Trp Gly Leu Ser Val Tyr Ala Asp Lys Pro Glu
140 145 150
Thr Thr Lys Glu Gln Leu Gly Glu Phe Tyr Glu Ala Leu Asp Cys
155 160 165
Leu Arg Ile Pro Lys Ser Asp Val Val Tyr Thr Asp Trp Lys Lys
170 175 180
Asp Lys Cys Glu Pro Leu Glu Lys Gln His Glu Lys Glu Arg Lys
185 190 195
Gln Glu Glu Gly Glu Ser
200

<210> 36

<211> 483

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 030850.7

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<210> 37

<211> 567

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 237416.12c

<220>

PA-0035 US

<221> unsure

<222> 33, 483, 500

<223> a, t, c, g, or other

<400> 37

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acataccccc accatgggtg ctccatc 567
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<210> 38

<211> 1003

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 237416.14

<400> 38

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tccctttcgt cactttgctc atgtactgta ttcttcaac ttcattaatg aatccatttg 180
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<210> 39

<211> 6868

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1269631CB1

<400> 39

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Trp	Thr	Gln	Arg	Leu	His	Gly	Gly	Ser	Ala	Pro	Leu	Pro	Gln	Asp
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Pro	Leu	Arg	Arg	Lys	Arg	Ser	Ala	Ala	Leu	Gln	Pro	Glu	Pro	Ile
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Lys	Val	Tyr	Gly	Gln	Val	Ser	Leu	Asn	Asp	Ser	His	Asn	Gln	Met
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Val	Val	His	Trp	Ala	Gly	Glu	Lys	Ser	Asn	Val	Ile	Val	Ala	Leu
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Ala	Arg	Asp	Ser	Leu	Ala	Leu	Ala	Arg	Pro	Lys	Ser	Ser	Asp	Val
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Tyr	Val	Ser	Tyr	Asp	Tyr	Gly	Lys	Ser	Phe	Lys	Lys	Ile	Ser	Asp
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Lys	Leu	Asn	Phe	Gly	Leu	Gly	Asn	Arg	Ser	Glu	Ala	Val	Ile	Ala
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Gln	Phe	Tyr	His	Ser	Pro	Ala	Asp	Asn	Lys	Arg	Tyr	Ile	Phe	Ala
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Asp	Ala	Tyr	Ala	Gln	Tyr	Leu	Trp	Ile	Thr	Phe	Asp	Phe	Cys	Asn
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Thr	Leu	Gln	Gly	Phe	Ser	Ile	Pro	Phe	Arg	Ala	Ala	Asp	Leu	Leu
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Leu	His	Ser	Lys	Ala	Ser	Asn	Leu	Leu	Leu	Gly	Phe	Asp	Arg	Ser
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His	Pro	Asn	Lys	Gln	Leu	Trp	Lys	Ser	Asp	Asp	Phe	Gly	Gln	Thr
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Trp	Ile	Met	Ile	Gln	Glu	His	Val	Lys	Ser	Phe	Ser	Trp	Gly	Ile
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Asp	Pro	Tyr	Asp	Lys	Pro	Asn	Thr	Ile	Tyr	Ile	Glu	Arg	His	Glu
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Pro	Ser	Gly	Tyr	Ser	Thr	Val	Phe	Arg	Ser	Thr	Asp	Phe	Phe	Gln
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Ser	Arg	Glu	Asn	Gln	Glu	Val	Ile	Leu	Glu	Glu	Val	Arg	Asp	Phe
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Gln	Leu	Arg	Asp	Lys	Tyr	Met	Phe	Ala	Thr	Lys	Val	Val	His	Leu
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Leu	Gly	Ser	Glu	Gln	Gln	Ser	Ser	Val	Gln	Leu	Trp	Val	Ser	Phe
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Gly	Arg	Lys	Pro	Met	Arg	Ala	Ala	Gln	Phe	Val	Thr	Arg	His	Pro	
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Ile	Asn	Glu	Tyr	Tyr	Ile	Ala	Asp	Ala	Ser	Glu	Asp	Gln	Val	Phe	
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Val	Cys	Val	Ser	His	Ser	Asn	Asn	Arg	Thr	Asn	Leu	Tyr	Ile	Ser	
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Glu	Ala	Glu	Gly	Leu	Lys	Phe	Ser	Leu	Ser	Leu	Glu	Asn	Val	Leu	
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Tyr	Tyr	Ser	Pro	Gly	Gly	Ala	Gly	Ser	Asp	Thr	Leu	Val	Arg	Tyr	
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Phe	Ala	Asn	Glu	Pro	Phe	Ala	Asp	Phe	His	Arg	Val	Glu	Gly	Leu	
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Gln	Gly	Val	Tyr	Ile	Ala	Thr	Leu	Ile	Asn	Gly	Ser	Met	Asn	Glu	
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Glu	Asn	Met	Arg	Ser	Val	Ile	Thr	Phe	Asp	Lys	Gly	Gly	Thr	Trp	
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Glu	Phe	Leu	Gln	Ala	Pro	Ala	Phe	Thr	Gly	Tyr	Gly	Glu	Lys	Ile	
				455					460					465	
Asn	Cys	Glu	Leu	Ser	Gln	Gly	Cys	Ser	Leu	His	Leu	Ala	Gln	Arg	
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Leu	Ser	Gln	Leu	Leu	Asn	Leu	Gln	Leu	Arg	Arg	Met	Pro	Ile	Leu	
				485					490					495	
Ser	Lys	Glu	Ser	Ala	Pro	Gly	Leu	Ile	Ile	Ala	Thr	Gly	Ser	Val	
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Gly	Lys	Asn	Leu	Ala	Ser	Lys	Thr	Asn	Val	Tyr	Ile	Ser	Ser	Ser	
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Thr	Trp	Gly	Asp	His	Gly	Gly	Ile	Ile	Thr	Ala	Ile	Ala	Gln	Gly	
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Met	Glu	Thr	Asn	Glu	Leu	Lys	Tyr	Ser	Thr	Asn	Glu	Gly	Glu	Thr	
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Trp	Lys	Thr	Phe	Ile	Phe	Ser	Glu	Lys	Pro	Val	Phe	Val	Tyr	Gly	
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Leu	Leu	Thr	Glu	Pro	Gly	Glu	Lys	Ser	Thr	Val	Phe	Thr	Ile	Phe	
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Gly	Ser	Asn	Lys	Glu	Asn	Val	His	Ser	Trp	Leu	Ile	Leu	Gln	Val	
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Asn	Ala	Thr	Asp	Ala	Leu	Gly	Val	Pro	Cys	Thr	Glu	Asn	Asp	Tyr	
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Lys	Leu	Trp	Ser	Pro	Ser	Asp	Glu	Arg	Gly	Asn	Glu	Cys	Leu	Leu	
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Gly	His	Lys	Thr	Val	Phe	Lys	Arg	Arg	Thr	Pro	His	Ala	Thr	Cys	
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Phe	Asn	Gly	Glu	Asp	Phe	Asp	Arg	Pro	Val	Val	Val	Ser	Asn	Cys	
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Ser	Cys	Thr	Arg	Glu	Asp	Tyr	Glu	Cys	Asp	Phe	Gly	Phe	Lys	Met	
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Ser	Glu	Asp	Leu	Ser	Leu	Glu	Val	Cys	Val	Pro	Asp	Pro	Glu	Phe	
				695					700					705	
Ser	Gly	Lys	Ser	Tyr	Ser	Pro	Pro	Val	Pro	Cys	Pro	Val	Gly	Ser	
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Thr	Tyr	Arg	Arg	Thr	Arg	Gly	Tyr	Arg	Lys	Ile	Ser	Gly	Asp	Thr	
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Cys	Ser	Gly	Gly	Asp	Val	Glu	Ala	Arg	Leu	Glu	Gly	Glu	Leu	Val	
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Pro Cys Pro Leu Ala Glu Glu Asn Glu Phe Ile Leu Tyr Ala Val	755	760	765
Arg Lys Ser Ile Tyr Arg Tyr Asp Leu Ala Ser Gly Ala Thr Glu	770	775	780
Gln Leu Pro Leu Thr Gly Leu Arg Ala Ala Val Ala Leu Asp Phe	785	790	795
Asp Tyr Glu His Asn Cys Leu Tyr Trp Ser Asp Leu Ala Leu Asp	800	805	810
Val Ile Gln Arg Leu Cys Leu Asn Gly Ser Thr Gly Gln Glu Val	815	820	825
Ile Ile Asn Ser Gly Leu Glu Thr Val Glu Ala Leu Ala Phe Glu	830	835	840
Pro Leu Ser Gln Leu Leu Tyr Trp Val Asp Ala Gly Phe Lys Lys	845	850	855
Ile Glu Val Ala Asn Pro Asp Gly Asp Phe Arg Leu Thr Ile Val	860	865	870
Asn Ser Ser Val Leu Asp Arg Pro Arg Ala Leu Val Leu Val Pro	875	880	885
Gln Glu Gly Val Met Phe Trp Thr Asp Trp Gly Asp Leu Lys Pro	890	895	900
Gly Ile Tyr Arg Ser Asn Met Asp Gly Ser Ala Ala Tyr His Leu	905	910	915
Val Ser Glu Asp Val Lys Trp Pro Asn Gly Ile Ser Val Asp Asp	920	925	930
Gln Trp Ile Tyr Trp Thr Asp Ala Tyr Leu Glu Cys Ile Glu Arg	935	940	945
Ile Thr Phe Ser Gly Gln Gln Arg Ser Val Ile Leu Asp Asn Leu	950	955	960
Pro His Pro Tyr Ala Ile Ala Val Phe Lys Asn Glu Ile Tyr Trp	965	970	975
Asp Asp Trp Ser Gln Leu Ser Ile Phe Arg Ala Ser Lys Tyr Ser	980	985	990
Gly Ser Gln Met Glu Ile Leu Ala Asn Gln Leu Thr Gly Leu Met	995	1000	1005
Asp Met Lys Ile Phe Tyr Lys Gly Lys Asn Thr Gly Ser Asn Ala	1010	1015	1020
Cys Val Pro Arg Pro Cys Ser Leu Leu Cys Leu Pro Lys Ala Asn	1025	1030	1035
Asn Ser Arg Ser Cys Arg Cys Pro Glu Asp Val Ser Ser Ser Val	1040	1045	1050
Leu Pro Ser Gly Asp Leu Met Cys Asp Cys Pro Gln Gly Tyr Gln	1055	1060	1065
Leu Lys Asn Asn Thr Cys Val Lys Glu Glu Asn Thr Cys Leu Arg	1070	1075	1080
Asn Gln Tyr Arg Cys Ser Asn Gly Asn Cys Ile Asn Ser Ile Trp	1085	1090	1095
Trp Cys Asp Phe Asp Asn Asp Cys Gly Asp Met Ser Asp Glu Arg	1100	1105	1110
Asn Cys Pro Thr Thr Ile Cys Asp Leu Asp Thr Gln Phe Arg Cys	1115	1120	1125
Gln Glu Ser Gly Thr Cys Ile Pro Leu Ser Tyr Lys Cys Asp Leu	1130	1135	1140
Glu Asp Asp Cys Gly Asp Asn Ser Asp Glu Ser His Cys Glu Met	1145	1150	1155
His Gln Cys Arg Ser Asp Glu Tyr Asn Cys Ser Ser Gly Met Cys	1160	1165	1170

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Ile Arg Ser Ser Trp Val Cys Asp Gly Asp Asn Asp Cys Arg Asp	1175	1180	1185
Trp Ser Asp Glu Ala Asn Cys Thr Ala Ile Tyr His Thr Cys Glu	1190	1195	1200
Ala Ser Asn Phe Gln Cys Arg Asn Gly His Cys Ile Pro Gln Arg	1205	1210	1215
Trp Ala Cys Asp Gly Asp Thr Asp Cys Gln Asp Gly Ser Asp Glu	1220	1225	1230
Asp Pro Val Asn Cys Glu Lys Lys Cys Asn Gly Phe Arg Cys Pro	1235	1240	1245
Asn Gly Thr Cys Ile Pro Ser Ser Lys His Cys Asp Gly Leu Arg	1250	1255	1260
Asp Cys Ser Asp Gly Ser Asp Glu Gln His Cys Glu Pro Leu Cys	1265	1270	1275
Thr His Phe Met Asp Phe Val Cys Lys Asn Arg Gln Gln Cys Leu	1280	1285	1290
Phe His Ser Met Val Cys Asp Gly Ile Ile Gln Cys Arg Asp Gly	1295	1300	1305
Ser Asp Glu Asp Ala Ala Phe Ala Gly Cys Ser Gln Asp Pro Glu	1310	1315	1320
Phe His Lys Val Cys Asp Glu Phe Gly Phe Gln Cys Gln Asn Gly	1325	1330	1335
Val Cys Ile Ser Leu Ile Trp Lys Cys Asp Gly Met Asp Asp Cys	1340	1345	1350
Gly Asp Tyr Ser Asp Glu Ala Asn Cys Glu Asn Pro Thr Glu Ala	1355	1360	1365
Pro Asn Cys Ser Arg Tyr Phe Gln Phe Arg Cys Glu Asn Gly His	1370	1375	1380
Cys Ile Pro Asn Arg Trp Lys Cys Asp Arg Glu Asn Asp Cys Gly	1385	1390	1395
Asp Trp Ser Asp Glu Lys Asp Cys Gly Asp Ser His Ile Leu Pro	1400	1405	1410
Phe Ser Thr Pro Gly Pro Ser Thr Cys Leu Pro Asn Tyr Tyr Arg	1415	1420	1425
Cys Ser Ser Gly Thr Cys Val Met Asp Thr Trp Val Cys Asp Gly	1430	1435	1440
Tyr Arg Asp Cys Ala Asp Gly Ser Asp Glu Glu Ala Cys Pro Leu	1445	1450	1455
Leu Ala Asn Val Thr Ala Ala Ser Thr Pro Thr Gln Leu Gly Arg	1460	1465	1470
Cys Asp Arg Phe Glu Phe Glu Cys His Gln Pro Lys Thr Cys Ile	1475	1480	1485
Pro Asn Trp Lys Arg Cys Asp Gly His Gln Asp Cys Gln Asp Gly	1490	1495	1500
Arg Asp Glu Ala Asn Cys Pro Thr His Ser Thr Leu Thr Cys Met	1505	1510	1515
Ser Arg Glu Phe Gln Cys Glu Asp Gly Glu Ala Cys Ile Val Leu	1520	1525	1530
Ser Glu Arg Cys Asp Gly Phe Leu Asp Cys Ser Asp Glu Ser Asp	1535	1540	1545
Glu Lys Ala Cys Ser Asp Glu Leu Thr Val Tyr Lys Val Gln Asn	1550	1555	1560
Leu Gln Trp Thr Ala Asp Phe Ser Gly Asp Val Thr Leu Thr Trp	1565	1570	1575
Met Arg Pro Lys Lys Met Pro Ser Ala Ser Cys Val Tyr Asn Val	1580	1585	1590

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Tyr	Tyr	Arg	Val	Val	Gly	Glu	Ser	Ile	Trp	Lys	Thr	Leu	Glu	Thr
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His	Ser	Asn	Lys	Thr	Asn	Thr	Val	Leu	Lys	Val	Leu	Lys	Pro	Asp
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Thr	Thr	Tyr	Gln	Val	Lys	Val	Gln	Val	Gln	Cys	Leu	Ser	Lys	Ala
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His	Asn	Thr	Asn	Asp	Phe	Val	Thr	Leu	Arg	Thr	Pro	Glu	Gly	Leu
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Pro	Asp	Ala	Pro	Arg	Asn	Leu	Gln	Leu	Ser	Leu	Pro	Arg	Glu	Ala
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Glu	Gly	Val	Ile	Val	Gly	His	Trp	Ala	Pro	Pro	Ile	His	Thr	His
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Gly	Leu	Ile	Arg	Glu	Tyr	Ile	Val	Glu	Tyr	Ser	Arg	Ser	Gly	Ser
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Lys	Met	Trp	Ala	Ser	Gln	Arg	Ala	Ala	Ser	Asn	Phe	Thr	Glu	Ile
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Lys	Asn	Leu	Leu	Val	Asn	Thr	Leu	Tyr	Thr	Val	Arg	Val	Ala	Ala
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Val	Thr	Ser	Arg	Gly	Ile	Gly	Asn	Trp	Ser	Asp	Ser	Lys	Ser	Ile
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Thr	Thr	Ile	Lys	Gly	Lys	Val	Ile	Pro	Pro	Pro	Asp	Ile	His	Ile
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Asp	Ser	Tyr	Gly	Glu	Asn	Tyr	Leu	Ser	Phe	Thr	Leu	Thr	Met	Glu
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Ser	Asp	Ile	Lys	Val	Asn	Gly	Tyr	Val	Val	Asn	Leu	Phe	Trp	Ala
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Phe	Asp	Thr	His	Lys	Gln	Glu	Arg	Arg	Thr	Leu	Asn	Phe	Arg	Gly
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Ser	Ile	Leu	Ser	His	Lys	Val	Gly	Asn	Leu	Thr	Ala	His	Thr	Ser
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Tyr	Glu	Ile	Ser	Ala	Trp	Ala	Lys	Thr	Asp	Leu	Gly	Asp	Ser	Pro
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Leu	Ala	Phe	Glu	His	Val	Met	Thr	Arg	Gly	Val	Arg	Pro	Pro	Ala
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Pro	Ser	Leu	Lys	Ala	Lys	Ala	Ile	Asn	Gln	Thr	Ala	Val	Glu	Cys
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Thr	Trp	Thr	Gly	Pro	Arg	Asn	Val	Val	Tyr	Gly	Ile	Phe	Tyr	Ala
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Thr	Ser	Phe	Leu	Asp	Leu	Tyr	Arg	Asn	Pro	Lys	Ser	Leu	Thr	Thr
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Ser	Leu	His	Asn	Lys	Thr	Val	Ile	Val	Ser	Lys	Asp	Glu	Gln	Tyr
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Leu	Phe	Leu	Val	Arg	Val	Val	Val	Pro	Tyr	Gln	Gly	Pro	Ser	Ser
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Asp	Tyr	Val	Val	Val	Lys	Met	Ile	Pro	Asp	Ser	Arg	Leu	Pro	Pro
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Arg	His	Leu	His	Val	Val	His	Thr	Gly	Lys	Thr	Ser	Val	Val	Ile
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Lys	Trp	Glu	Ser	Pro	Tyr	Asp	Ser	Pro	Asp	Gln	Asp	Leu	Leu	Tyr
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Leu	Glu	Pro	Gly	Gly	Lys	Tyr	His	Ile	Ile	Val	Gln	Leu	Gly	Asn
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2015 2020 2025
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Ser Arg Gly Tyr Glu Ile His Met Phe Asp Ser Ala Met Asn Ile
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Cys Leu Phe Gly Asn Gln Ile Cys Gly Glu Pro Ala Ile Leu Leu
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Tyr Asp Glu Leu Gly Ser Gly Ala Asp Ala Ser Ala Thr Gln Ala
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Ala Arg Ser Thr Asp Val Ala Ala Val Val Val Pro Ile Leu Phe
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<211> 648

<212> PRT

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 961189CD1

<400> 42

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 35 40 45
Pro Lys Val Thr Ser Arg Asn Phe Glu Lys Ser Ile Thr Lys Leu
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Gly Lys Lys Gly Val Lys Gln Phe Lys Asn Lys Gln Gln Gly Asp
 65 70 75
Lys Ser Pro Lys Asn Lys Phe Gln Pro Ala Asn Lys Phe Asn Lys
 80 85 90
Lys Arg Lys Phe Gln Pro Asp Gly Arg Ser Asp Glu Ser Ala Ala
 95 100 105
Lys Lys Pro Lys Trp Asp Asp Phe Lys Lys Lys Lys Glu Leu
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Lys Gln Ser Arg Gln Leu Ser Asp Lys Thr Asn Tyr Asp Ile Val
 125 130 135
Val Arg Ala Lys Gln Met Trp Glu Ile Leu Arg Arg Lys Asp Cys
 140 145 150
Asp Lys Glu Lys Arg Val Lys Leu Met Ser Asp Leu Gln Lys Leu
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Ile Gln Gly Lys Ile Lys Thr Ile Ala Phe Ala His Asp Ser Thr
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Arg Val Ile Gln Cys Tyr Ile Gln Tyr Gly Asn Glu Glu Gln Arg
 185 190 195
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Lys	Ala	Lys	Tyr	Ser	Arg	Asn	Ile	Val	Lys	Lys	Phe	Leu	Met	Tyr
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Gly	Ser	Lys	Pro	Gln	Ile	Ala	Glu	Ile	Ile	Arg	Ser	Phe	Lys	Gly
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His	Val	Arg	Lys	Met	Leu	Arg	His	Ala	Glu	Ala	Ser	Ala	Ile	Val
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Glu	Tyr	Ala	Tyr	Asn	Asp	Lys	Ala	Ile	Leu	Glu	Gln	Arg	Asn	Met
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Leu	Thr	Glu	Glu	Leu	Tyr	Gly	Asn	Thr	Phe	Gln	Leu	Tyr	Lys	Ser
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Ala	Asp	His	Pro	Thr	Leu	Asp	Lys	Val	Leu	Glu	Val	Gln	Pro	Glu
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Lys	Leu	Glu	Leu	Ile	Met	Asp	Glu	Met	Lys	Gln	Ile	Leu	Thr	Pro
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Met	Ala	Gln	Lys	Glu	Ala	Val	Ile	Lys	His	Ser	Leu	Val	His	Lys
				320					325					330
Val	Phe	Leu	Asp	Phe	Phe	Thr	Tyr	Ala	Pro	Pro	Lys	Leu	Arg	Ser
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Glu	Met	Ile	Glu	Ala	Ile	Arg	Glu	Ala	Val	Val	Tyr	Leu	Ala	His
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Thr	His	Asp	Gly	Ala	Arg	Val	Ala	Met	His	Cys	Leu	Trp	His	Gly
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Thr	Pro	Lys	Asp	Arg	Lys	Val	Ile	Val	Lys	Thr	Met	Lys	Thr	Tyr
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Val	Glu	Lys	Val	Ala	Asn	Gly	Gln	Tyr	Ser	His	Leu	Val	Leu	Leu
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Ala	Ala	Phe	Asp	Cys	Ile	Asp	Asp	Thr	Lys	Leu	Val	Lys	Gln	Ile
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Lys	Tyr	Gly	Arg	Lys	Val	Leu	Leu	Tyr	Leu	Leu	Ser	Pro	Arg	Asp
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Pro	Ala	His	Thr	Val	Arg	Glu	Ile	Ile	Glu	Val	Leu	Gln	Lys	Gly
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Asp	Gly	Asn	Ala	His	Ser	Lys	Lys	Asp	Thr	Glu	Val	Arg	Arg	Arg
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Glu	Leu	Leu	Glu	Ser	Ile	Ser	Pro	Ala	Leu	Leu	Ser	Tyr	Leu	Gln
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Glu	His	Ala	Gln	Glu	Val	Val	Leu	Asp	Lys	Ser	Ala	Cys	Val	Leu
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Val	Ser	Asp	Ile	Leu	Gly	Ser	Ala	Thr	Gly	Asp	Val	Gln	Pro	Thr
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Met	Asn	Ala	Ile	Ala	Ser	Leu	Ala	Ala	Thr	Gly	Leu	His	Pro	Gly
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Leu	Val	Leu	Lys	Trp	Leu	Ile	Glu	Gln	Asp	Lys	Lys	Met	Lys	Glu
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Asn	Gly	Arg	Glu	Gly	Cys	Phe	Ala	Lys	Thr	Leu	Val	Glu	His	Val
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Gly	Met	Lys	Asn	Leu	Lys	Ser	Trp	Ala	Ser	Val	Asn	Arg	Gly	Ala
				590					595					600
Ile	Ile	Leu	Ser	Ser	Leu	Leu	Gln	Ser	Cys	Asp	Leu	Glu	Val	Ala
				605					610					615

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Asn Lys Val Lys Ala Ala Leu Lys Ser Leu Ile Pro Thr Leu Glu
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Lys Thr Lys Ser Thr Ser Lys Gly Ile Glu Ile Leu Leu Glu Lys
635 640 645
Leu Ser Thr

<210> 43
<211> 434
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<213> Homo sapiens

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<210> 45
<211> 1308
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 985556.1

<220>
<221> unsure
<222> 905
<223> a, t, c, g, or other

<400> 45

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<210> 46

<211> 2523

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 476301CB1

<400> 46

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<210> 47

<211> 596

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 476301CD1

<400> 47

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35 40 45
His Pro Thr Ser Cys Ser Ser Ser Ser Glu Ile Met Ser Val Leu
50 55 60
Phe Phe Tyr Ile Met Arg Tyr Lys Gln Ser Asp Pro Glu Asn Pro
65 70 75
Asp Asn Asp Arg Phe Val Leu Ala Lys Arg Leu Ser Phe Val Asp
80 85 90
Val Ala Thr Gly Trp Leu Gly Gln Gly Leu Gly Val Ala Cys Gly
95 100 105
Met Ala Tyr Thr Gly Lys Tyr Phe Asp Arg Ala Ser Tyr Arg Val
110 115 120
Phe Cys Leu Met Ser Asp Gly Glu Ser Ser Glu Gly Ser Val Trp
125 130 135
Glu Ala Met Ala Phe Ala Ser Tyr Tyr Ser Leu Asp Asn Leu Val
140 145 150
Ala Ile Phe Asp Val Asn Arg Leu Gly His Ser Gly Ala Leu Pro
155 160 165
Ala Glu His Cys Ile Asn Ile Tyr Gln Arg Arg Cys Glu Ala Phe
170 175 180
Gly Trp Asn Thr Tyr Val Val Asp Gly Arg Asp Val Glu Ala Leu

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Cys Gln Val Phe	185	Val Lys His Lys Pro	190	Thr	195
Ala Val Val Ala	200	Arg Gly Thr Pro Ser	205	Ile	210
Glu Asp Ala Glu	215	Pro Met Pro Arg Glu	220	Arg	225
Ala Asp Ala Ile	230	Ser Gln Ile Gln Thr	235	Ser	240
Arg Asn Leu Asp	245	Glu Asp Ser Pro Glu	250	Val	255
Asn Ile Thr Asp	260	Pro Pro Asp Tyr Arg	265	Val	270
Gly Asp Lys Ile	275	Cys Gly Leu Ala Leu	280	Ala	285
Lys Leu Gly Tyr	290	Val Val Leu Asp Gly	295	Asp	300
Thr Arg Tyr Ser	305	Phe Asn Lys Glu Tyr	310	Pro	315
Glu Arg Phe Ile	320	Glu Gln Asn Met Val	325	Ser	330
Val Ala Leu Gly	335	Arg Thr Ile Ala Phe	340	Ala	345
Ser Thr Phe Ala	350	Ala Phe Asp His Ile	355	Arg	360
Ile Gly Gly Leu	365	Asn Ile Ile Gly Ser	370	His	375
Cys Gly Val Ser	380	Ala Ser Gln Met Ala	385	Leu	390
Glu Asp Ile Ala	395	Pro Lys Cys Thr Ile	400	Phe	405
Tyr Pro Thr Asp	410	His Ala Val Ala Leu	415	Ala	420
Ala Asn Ala Lys	425	Arg Thr Thr Arg Pro	430	Glu	435
Thr Met Val Ile	440	Arg Phe Glu Ile Gly	445	Gln	450
Ala Lys Val Leu	455	Asp Lys Val Thr Val	460	Ile	465
Gly Ala Gly Ile	470	Leu Ala Ala Ala Asp	475	Glu	480
Leu Ser Lys Gln	485	Val Ile Asp Leu Phe	490	Thr	495
Ile Lys Pro Leu	500	Val Ser Ser Ala Lys	505	Ala	510
Thr Glu Gly Arg	515	Asp His Tyr Pro Gln	520	Gly	525
Gly Ile Gly Glu	530	Val Ser Met Asp Pro	535	Asp	540
Ile Gln Val His	545	Gly Val Pro Gln Ser	550	Gly	555
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<211> 2492

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 996427.2

<400> 48

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<210> 49

<211> 902

<212> DNA

<213> Homo sapiens

PA-0035 US

<220>

<221> misc_feature

<223> Incyte ID No: 2989375CB1

<400> 49

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tc 902
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<210> 50

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2989375CD1

<400> 50

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Phe Thr His Gln Ile Ile Ser Met Ala Thr Ala Cys Ser Leu Leu
          20          25          30
Leu Glu Cys Phe Val Leu Ala Ala Ser Leu Leu Val Cys Val Trp
          35          40          45
Ser Glu Trp Arg Arg
          50
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<210> 51

<211> 618

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 236359.2

<220>

<221> unsure

<222> 44, 57

<223> a, t, c, g, or other

<400> 51

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PA-0035 US

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cctagatttt cgaaactctt cagctacttg ccccttttta tctgaaacca tcataccttc 120
tgaaagaaaa aagcatatct tcattgacat aacagaagtg agatggccca gtcttgatac 180
agatgggtacc atgatataata tggagagtg cattgtgaag ataacatctt tagatgggtca 240
tgcatacctc tgccctgccc gatctcagca tgaatttaca gtacattttt tgtgtaaagt 300
tagccagaag tcagactcat ctgcagtgtt gtcagaaaca aataataaag ccccaaaaga 360
taaactagtt gaaaaaactg gcaaaatctg tatacgtgga aatttaccag gacagagact 420
gaagaataaa gaaaatgagt ttcatggcca gatcatgaaa tccaaagaaa ctttaaagaa 480
gatgagttgt gtaaattggaa ctgaaggag ggaagagctg ccttcgcctg gtacaaagca 540
cacatgtgta tacacatggg tcaagcagtg ctggtctgtg gctgcctgtc cagaggaatg 600
gaaatatcct ttgtcttt 618
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<210> 52

<211> 527

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 011112.1c

<400> 52

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atatgattca ttgtctaacc ccatcaagg gttacatatt ttaaataaga cgtcatttct 180
cctcttcaat ccagcatctc ctccttcaaa ggcatttttc accctcttga aattaatacg 240
ctctattcgc tcttttcacc taaaaaaagg tcaatcgtcg ctctgagaaa caacagttag 300
atgcaaaata agggtaaaat ggcattgaaa tgaatccctt tgaaaaagta agcgggttgc 360
tttatcagtt aatgggtctca tcagcgcttc agtttctct tctgcaaaaa tcagtctgtt 420
gaactagagc atatcaaagg ttccttctag tgttttgatt ctaggacctc taaattcatg 480
caggctgcat aatgcaaatt taacctgatt aaagccttat ttctcat 527
```

<210> 53

<211> 899

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 198268.1

<400> 53

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ctgtattctc tttaaacaacc cagttgccc acccagaaac tgggagtcac gcagacctcc 180
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gtcaaaccac cactgtatct catgcccagc gctgccacgt gaatgtactc tgctcacttc 300
cttctggat tacccatagc cccacctcat cctcctaccc ttgctttcct cctgaagtc 360
agagagatcc tactcaagag ataactgtc ctgacagccc ttattacaga actgaagtac 420
tctccttagc ttccagctctg tgcccacgtg ccttggcttt ggatacaagg tactacagca 480
ctttgtccac tctccaggct tacctgtgtc attccacatg cacatcttag aaaatgccag 540
ccttagagaa ttctccttag ccccaaaatg tctttgccc gtgcaattcc ttcttctgt 600
attacccctt tccctccttc acactatctg cctggctaatt tcttatttat ccttagttca 660
agtatggcct tttctgggaa ggtgacctc cttggccacc ccttgcatat actttgatgc 720
cctagggcac acccccttta ttccctcat agaaacagcc ttctgtaaat tgttccatga 780
caacctgtat ttcaatttgt aagaaatttg catgtactgt gagctcccca acgtcaggag 840
actgaccctt ttgatcatc tgctaagcct cattaaatga atgaatgaaa atgttaaaa 899
```

PA-0035 US

<210> 54
<211> 3575
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 978740.3

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gggcaggccc ggcagccgcc atggtggcca aggattacc cttctacctc acggtcaaga 180
gagcgaactg cagcctggag ctacctccgg ccagcgggtc ggccaaggac gctgaggagc 240
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ccgtgaaggc cagccatta aagcgcttca gtcaaacctt gcagcgtctc attagcttcc 360
gcagtgaag cgccttgac atcctcgccc cccgacctg gtccagaaat gccgccccct 420
cgagcacgaa acggagagat agcaagctgt ggagtgaag cttcgatgtg tgcgtcaatc 480
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aagaagactt gatagaagac ttgaaattag caaaaaaggc ctatcatgac cccatgctga 600
aactctccat aatgacagaa caagagttga atcaaatatt tggaacactg gactctctaa 660
ttcctctaca tgaagagctc cttagtcagc ttcgagatgt taggaagcct gatggctcga 720
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<210> 55
<211> 1025
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 400197.1

<220>
<221> unsure
<222> 574-662, 749-830
<223> a, t, c, g, or other

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ttacc 1025
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<210> 56
<211> 586
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

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<223> Incyte ID No: 235687.5c

<220>

<221> unsure

<222> 5, 45, 49, 127, 133, 159

<223> a, t, c, g, or other

<400> 56

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aaagaactgt aacagaactg atattacagc accagaacct tcagcagttg tctgccaatc 480
tatgggccgc tgtcagggct cgaggatgcc agtttttagg gccagctatg caagaagagg 540
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<210> 57

<211> 2660

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2797839CB1

<400> 57

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aaccattgcc tggaaagcta ccaaaaggga tctctgcagg agctgtccag acagctggta 360
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agaaggagtt gctcctgagt gctattgact ctgtcaatgc gacctccaag acaggaggct 1620
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<210> 58

<211> 812

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2797839CD1

<400> 58

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35 40 45
Arg Ala Arg Lys Arg Ala Ala Lys Arg Arg Leu Gly Ser Val Glu
50 55 60
Ala Pro Lys Thr Asn Lys Ser Pro Glu Ala Lys Pro Leu Pro Gly
65 70 75
Lys Leu Pro Lys Gly Ile Ser Ala Gly Ala Val Gln Thr Ala Gly
80 85 90
Lys Lys Gly Pro Gln Ser Leu Phe Asn Ala Pro Arg Gly Lys Lys
95 100 105
Arg Pro Ala Pro Gly Ser Asp Glu Glu Glu Glu Glu Asp Ser
110 115 120
Glu Glu Asp Gly Met Val Asn His Gly Asp Leu Trp Gly Ser Glu
125 130 135
Asp Asp Ala Asp Thr Val Asp Asp Tyr Gly Ala Asp Ser Asn Ser
140 145 150
Glu Asp Glu Glu Glu Gly Glu Ala Leu Leu Pro Ile Glu Arg Ala
155 160 165
Ala Arg Lys Gln Lys Ala Arg Glu Ala Ala Ala Gly Ile Gln Trp
170 175 180
Ser Glu Glu Glu Thr Glu Asp Glu Glu Glu Glu Lys Glu Val Thr
185 190 195
Pro Glu Ser Gly Pro Pro Lys Val Glu Glu Ala Asp Gly Gly Leu

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Gln Ile Asn Val	200	Glu Glu Pro Phe	205	Val Leu Pro Pro Ala	210
	215		220		225
Glu Met Glu Gln	230	Asp Ala Gln Ala Pro	235	Leu Gln Arg Val	240
	245		250		255
Lys Arg Ile Gln	260	Asp Ile Val Gly Ile	265	Leu Arg Asp Phe Gly	270
	275		280		285
Gln Arg Glu Glu	290	Gly Arg Ser Arg Ser	295	Glu Tyr Leu Asn Arg	300
	305		310		315
Lys Lys Asp Leu	320	Ala Ile Tyr Tyr Ser	325	Tyr Gly Asp Phe Leu	330
	335		340		345
Gly Lys Leu Met	350	Asp Leu Phe Pro Leu	355	Ser Glu Leu Val Glu	360
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Leu Glu Ala Asn	380	Glu Val Pro Arg Pro	385	Val Thr Leu Arg Thr	390
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Thr Leu Lys Thr	410	Arg Arg Arg Asp Leu	415	Ala Gln Ala Leu Ile	420
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Arg Gly Val Asn	440	Leu Asp Pro Leu Gly	445	Lys Trp Ser Lys Thr	450
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	485		490		495
Tyr Leu Ala Gly	500	His Tyr Met Leu Gln	505	Gly Ala Ser Ser Met	510
	515		520		525
Pro Val Met Ala	530	Leu Ala Pro Gln Glu	535	His Glu Arg Ile Leu	540
	545		550		555
Met Cys Cys Ala	560	Pro Gly Gly Lys Thr	565	Ser Tyr Met Ala Gln	570
	575		580		585
Met Lys Asn Thr	590	Gly Val Ile Leu Ala	595	Asn Asp Ala Asn Ala	600
	605		610		615
Arg Leu Lys Ser	620	Val Val Gly Asn Leu	625	His Arg Leu Gly Val	630
	635		640		645
Asn Thr Ile Ile	650	Ser His Tyr Asp Gly	655	Arg Gln Phe Pro Lys	660
	665		670		675
Val Gly Gly Phe	680	Asp Arg Val Leu Leu	685	Asp Ala Pro Cys Ser	690
	695		700		705
Thr Gly Val Ile	710	Ser Lys Asp Pro Ala	715	Val Lys Thr Asn Lys	720
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Glu Lys Asp Ile	740	Leu Arg Cys Ala His	745	Leu Gln Lys Glu Leu	750
	755		760		765
Leu Ser Ala Ile	770	Asp Ser Val Asn Ala	775	Thr Ser Lys Thr Gly	780
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Tyr Leu Val Tyr	800	Cys Thr Cys Ser Ile	805	Thr Val Glu Glu Asn	810
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Trp Val Val Asp	830	Tyr Ala Leu Lys Lys	835	Arg Asn Val Arg Leu	840
	845		850		855
Pro Thr Gly Leu	860	Asp Phe Gly Gln Glu	865	Gly Phe Thr Arg Phe	870
	875		880		885
Glu Arg Arg Phe	890	His Pro Ser Leu Arg	895	Ser Thr Arg Arg Phe	900
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Pro His Thr His	920	Asn Met Asp Gly Phe	925	Phe Ile Ala Lys Phe	930
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Lys Phe Ser Asn	950	Ser Ile Pro Gln Ser	955	Gln Thr Gly Asn Ser	960
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Thr Ala Thr Pro	980	Thr Asn Val Asp Leu	985	Pro Gln Val Ile Pro	990
	995		1000		1005
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	620		625		630
Lys Thr Lys Gln	Gln Leu Gln Lys Gln	Gln His Pro Lys Lys	Ala		
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Ser Phe Gln Lys	Leu Asn Gly Ile Ser	Lys Gly Ala Asp Ser	Glu		
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Leu Ser Thr Val	Pro Ser Val Thr Lys	Thr Gln Ala Ser Ser	Ser		
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Phe Gln Asp Ser	Ser Gln Pro Ala Gly	Lys Ala Glu Gly Ile	Arg		
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Glu Pro Lys Val	Thr Gly Lys Leu Lys	Gln Arg Ser Pro Lys	Leu		
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Gln Ser Ser Lys	Lys Val Ala Phe Leu	Arg Gln Asn Ala Pro	Pro		
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Thr Gln Ala Thr	Leu Lys Pro Lys Asp	His His Gln Pro Leu	Gly		
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Arg Ala Lys Gly	Val Glu Lys Gln Gln	Leu Pro Glu Gln Pro	Phe		
	755		760		765
Glu Lys Ala Ala	Phe Gln Lys Gln Asn	Asp Thr Pro Lys Gly	Pro		
	770		775		780
Gln Pro Pro Thr	Val Ser Pro Ile Arg	Ser Ser Arg Pro Pro	Pro		
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Leu Ser

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<212> DNA
<213> Homo sapiens

<220>
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<212> DNA
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<223> a, t, c, g, or other

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<210> 61

<211> 1952

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 085596CB1

<400> 61

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<210> 62

<211> 525

<212> PRT

<213> Homo sapiens

<220>

PA-0035 US

<221> misc_feature

<223> Incyte ID No: 085596CD1

<400> 62

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				20						25				30
Ala	Glu	Lys	Ala	Leu	Asp	Leu	Ile	Asn	Lys	Arg	Arg	Arg	Asp	Gly
				35						40				45
Tyr	Leu	Phe	Gln	Leu	Leu	Arg	Ile	Ala	Asp	Ala	His	Leu	Asp	Arg
				50						55				60
Val	Glu	Asn	Thr	Thr	Val	Tyr	Tyr	Leu	Val	Leu	Asp	Val	Gln	Glu
				65						70				75
Ser	Asp	Cys	Ser	Val	Leu	Ser	Arg	Lys	Tyr	Trp	Asn	Asp	Cys	Glu
				80						85				90
Pro	Pro	Asp	Ser	Arg	Arg	Pro	Ser	Glu	Ile	Val	Ile	Gly	Gln	Cys
				95						100				105
Lys	Val	Ile	Ala	Thr	Arg	His	Ser	His	Glu	Ser	Gln	Asp	Leu	Arg
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Val	Ile	Asp	Phe	Asn	Cys	Thr	Thr	Ser	Ser	Val	Ser	Ser	Ala	Leu
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Ala	Asn	Thr	Lys	Asp	Ser	Pro	Val	Leu	Ile	Asp	Phe	Phe	Glu	Asp
				140						145				150
Thr	Glu	Arg	Tyr	Arg	Lys	Gln	Ala	Asn	Lys	Ala	Leu	Glu	Lys	Tyr
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Lys	Glu	Glu	Asn	Asp	Asp	Phe	Ala	Ser	Phe	Arg	Val	Asp	Arg	Thr
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Glu	Arg	Val	Ala	Arg	Val	Arg	Gly	Gly	Glu	Gly	Thr	Gly	Tyr	Phe
				185						190				195
Val	Asp	Phe	Ser	Val	Arg	Asn	Cys	Pro	Arg	His	His	Phe	Pro	Arg
				200						205				210
His	Pro	Asn	Val	Phe	Gly	Phe	Cys	Arg	Ala	Asp	Leu	Phe	Tyr	Asp
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Val	Glu	Ala	Leu	Asp	Leu	Glu	Ser	Pro	Lys	Asn	Leu	Val	Ile	Asn
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Cys	Glu	Val	Phe	Asp	Pro	Gln	Glu	His	Glu	Asn	Ile	Asn	Gly	Val
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Pro	Pro	His	Leu	Gly	His	Pro	Phe	His	Trp	Gly	Gly	His	Glu	Arg
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Ser	Ser	Thr	Thr	Lys	Pro	Pro	Phe	Lys	Pro	His	Gly	Ser	Arg	Asp
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His	His	His	Pro	His	Lys	Pro	His	Glu	His	Gly	Pro	Pro	Pro	Pro
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Pro	Asp	Glu	Arg	Asp	His	Ser	His	Gly	Pro	Pro	Leu	Pro	Gln	Gly
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Pro	Pro	Pro	Leu	Leu	Pro	Met	Ser	Cys	Ser	Ser	Cys	Gln	His	Ala
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Thr	Phe	Gly	Thr	Asn	Gly	Ala	Gln	Arg	Arg	Ser	His	Asn	Asn	Asn
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Ser	Ser	Asp	Leu	His	Pro	His	Lys	His	His	Ser	His	Glu	Gln	His
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Pro	His	Gly	His	His	Pro	His	Ala	His	His	Pro	His	Glu	His	Asp
				365						370				375
Thr	His	Arg	Gln	His	Pro	His	Gly	His	His	Pro	His	Gly	His	His
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Pro	His	Gly	His	His	Pro	His	Gly	His	His	Pro	His	Gly	His	His
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Pro	His	Asn	Gln	Gly	His	Cys	Cys	His	Gly	His	Gly	Pro	Pro	Pro
			425						430					435
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His	Cys	Arg	Gln	Ile	Gly	Ser	Val	Tyr	Arg	Leu	Pro	Pro	Leu	Arg
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Lys	Gly	Glu	Val	Leu	Pro	Leu	Pro	Glu	Ala	Asn	Phe	Pro	Ser	Phe
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Pro	Leu	Pro	His	His	Lys	His	Pro	Leu	Lys	Pro	Asp	Ile	Gln	Pro
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Phe	Pro	Gln	Ser	Val	Ser	Glu	Ser	Cys	Pro	Gly	Lys	Phe	Lys	Ser
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<210> 63

<211> 1635

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 103917CB1

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1635

<210> 64
<211> 217
<212> PRT
<213> Homo sapiens

<220>
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35 40 45
Thr Tyr Ser Ser Ala Gly Asp Ser Val Tyr Thr Tyr Phe Ser Ala
50 55 60
Val Ala Gly Gln Asp Gly Glu Val Asp Ala Glu Glu Leu Gln Arg
65 70 75
Cys Leu Thr Gln Ser Gly Ile Asn Gly Thr Tyr Ser Pro Phe Ser
80 85 90
Leu Glu Thr Cys Arg Ile Met Ile Ala Met Leu Asp Arg Asp His
95 100 105
Thr Gly Lys Met Gly Phe Asn Ala Phe Lys Glu Leu Trp Ala Ala
110 115 120
Leu Asn Ala Trp Lys Glu Asn Phe Met Thr Val Asp Gln Asp Gly
125 130 135
Ser Gly Thr Val Glu His His Glu Leu Arg Gln Ala Ile Gly Leu
140 145 150
Met Gly Tyr Arg Leu Ser Pro Gln Thr Leu Thr Thr Ile Val Lys
155 160 165
Arg Tyr Ser Lys Asn Gly Arg Ile Phe Phe Asp Asp Tyr Val Ala
170 175 180
Cys Cys Val Lys Leu Arg Ala Leu Thr Asp Phe Phe Arg Lys Arg
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<212> DNA
<213> Homo sapiens

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 <213> Homo sapiens

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 <223> Incyte ID No: 3603037CD1

<400> 66

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Thr	His	Thr	Gly	Glu	Lys	Pro	Phe	Ala	Cys	Asp	Tyr	Cys	Gly	Arg	
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PA-0035 US

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<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 088564CB1

<400> 67

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<211> 96

<212> PRT

<213> Homo sapiens

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<223> Incyte ID No: 088564CD1

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Asp Cys Cys Leu Gly Tyr Thr Asp Arg Ile Leu His Pro Lys Phe
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Ile Val Gly Phe Thr Arg Gln Leu Ala Asn Glu Gly Cys Asp Ile
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Asn Ala Ile Ile Phe His Thr Lys Lys Lys Leu Ser Val Cys Ala
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PA-0035 US

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<223> a, t, c, g, or other

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<211> 2752

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 209265.54

<400> 71

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<223> Incyte ID No: 701484CB1

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<220>

<221> misc_feature

<223> Incyte ID No: 701484CD1

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Phe Thr Asp Thr Glu Arg Leu Ile Gly Asp Ala Ala Lys Asn Gln
          50          55          60
Val Ala Met Asn Pro Gln Asn Thr Val Phe Asp Ala Lys Arg Leu
          65          70          75
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          80          85          90
Leu Trp Pro Phe Gln Val Ile Asn Glu Gly Gly Lys Pro Lys Val
          95          100          105
Leu Val Ser Tyr Lys Gly Glu Asn Lys Ala Phe Tyr Pro Glu Glu
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          155          160          165
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          185          190          195
His Val Leu Ile Phe Asp Leu Gly Gly Gly Thr Phe Asp Val Ser
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Asn	Gln	Leu	Ala	Glu	Lys	Asp	Glu	Phe	Asp	His	Lys	Arg	Lys	Glu			
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Leu	Glu	Gln	Met	Cys	Asn	Pro	Ile	Ile	Thr	Lys	Leu	Tyr	Gln	Gly			
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<212> DNA

<213> Homo sapiens

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<210> 76

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<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3766715CD1

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Gln Pro Asn Phe Ala	Val Ala Trp Ser	Asn Leu Gly Cys Val Phe			
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Asn Ala Gln Gly Glu	Ile Trp Leu Ala	Ile His His Phe Glu Lys			
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Ala Val Thr Leu Asp	Pro Asn Phe Leu	Asp Ala Tyr Ile Asn Leu			
	95		100		105
Gly Asn Val Leu Lys	Glu Ala Arg Ile	Phe Asp Arg Ala Val Ala			
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Ala Tyr Leu Arg Ala	Leu Ser Leu Ser	Pro Asn His Ala Val Val			
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His Gly Asn Leu Ala	Cys Val Tyr Tyr	Glu Gln Gly Leu Ile Asp			
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Leu Ala Ile Asp Thr	Tyr Arg Arg Ala	Ile Glu Leu Gln Pro His			
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Phe Pro Asp Ala Tyr	Cys Asn Leu Ala	Asn Ala Leu Lys Glu Lys			
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Gly Ser Val Ala Glu	Ala Glu Asp Cys	Tyr Asn Thr Ala Leu Arg			
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Leu Cys Pro Thr His	Ala Asp Ser Leu	Asn Asn Leu Ala Asn Ile			
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Lys Arg Glu Gln Gly	Asn Ile Glu Glu	Ala Val Arg Leu Tyr Arg			
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Ala Tyr Ser Asn Met	Gly Asn Thr Leu	Lys Glu Met Gln Asp Val			
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Gln Gly Ala Leu Gln	Cys Tyr Thr Arg	Ala Ile Gln Ile Asn Pro			
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Leu Pro Ser Val His	Pro His His Ser	Met Leu Tyr Pro Leu Ser			
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His Gly Phe Arg Lys	Ala Ile Ala Glu	Arg His Gly Asn Leu Cys			
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Glu Thr Ser Pro Ala Glu Val Ala Glu	560	Gly Asp His Ala Asn Met	570
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Gly His Ile Tyr Asp Asn Arg Ile Val	605	Val Lys Ile Val Lys Met	615
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Leu Asn Met Pro Val Ile Pro Met Asn	650	Gln Ile Thr Ile Asn Gly	660
Ile Glu Met Ile Asn Arg Gly Gln Ile	665	Thr Gln Ile Asn Asn Lys	675
Phe Ser Ile Ser Asn Gly Leu Ala Thr	680	Thr Ile Ile Val Thr Thr	690
Ala Ala Thr Gly Glu Glu Val Pro Arg	695	Ala Ile Val Tyr Cys Asn	705
Arg Ser Gln Tyr Gly Leu Pro Glu Asp	710	Ser Thr Leu Gln Met Trp	720
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Ala Asn Ile Leu Lys Arg Val Pro Asn	740	Ile Gln Gln Tyr Ala Gln	750
Arg Phe Pro Ala Val Gly Glu Pro Asn	755	Ile Phe Ser Pro Val Ala	765
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Pro Lys Glu Glu His Val Arg Arg Gly	785	Thr Thr Gly Met Asp Val	795
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Lys Leu Gly Thr Asp Leu Glu Tyr Leu	850		

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Tyr Thr Met Glu	Leu Glu Arg Leu Tyr	Leu Gln Met Trp Glu	His		
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<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2049950CB1

<400> 77

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<210> 78
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 <212> PRT
 <213> Homo sapiens

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 <223> Incyte ID No: 2049950CD1

<400> 78

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Asp	Tyr	Lys	Gln	Asp	Ser	Val	Ile	Thr	Asp	Glu	Met	Asn	Tyr	Ser	
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<211> 1093

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 231588.6c

<400> 79

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tagacagcta tttatctaag tgtggtgaga aatataatga catcgacttg acgatagata 660
aagagatcta cgaacagctg ttgcaggaag gcattgatca tctcctggcc cagcatgttg 720
ctcatctctt tattagagac ccactgacac tgtttgaaga gaaaatacac ctggatgatg 780
ctaattgagtc tgaccatttt gagaatattc agtccacaaa ttggcagaca atgagattta 840
agccccctcc tccaaactca gacattggat ggagagtaga atttcgaccc atggagggtgc 900
aattaacaga ctttgagaac tctgcctatg tgggtgttgt ggtactgctc accagagtga 960
tcctttccta caaattggat tttctcattc cactgtcaaa ggtaaggata tgtttcttta 1020
tgggtgatggg tatagatcta tctgtagata tattttattta tatatgctat ttatttccca 1080
cctgatttca ttt 1093
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<210> 80

<211> 834

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 152298.2

<220>

<221> unsure

<222> 343-385

<223> a, t, c, g, or other

<400> 80

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ctgttttaggc ccagccagcc ttcctgagcc tgtgcatagt ctctctggct caaggaactc 120
tctctaccga ggtgtgatct cctaactcct ggcactcatt tacctatcca tgggttggtg 180
tcagcctcca agatgcctgc agtcatccct gcctcctggg attcatatcc tcctccacat 240
tgtgccagga ttgggctctg tggccaaaaa gaaaacagca gatgagagga cgtgtctctt 300
```

PA-0035 US

```
ctcagaaggg ttagaaaaga ctgtggcttc catttttagat gannnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnctctt ttccttcttc tcttctcttg atctcttget 420
ctgaggaaag caaactacta tgttgtgagc agcccaatgg agaggcccac aagacaacga 480
actgaagcct ccagcaacaa ccctgtgagg tcagtttgga agtggatttt ctagcccca 540
ttgagcttaa gatgacttca gcttcagcag acagcttgac tgcagccttt ctagagagca 600
agcaccaccc agctctgctg cttctagacc cctgacctca gaaattgcac gagataacat 660
gtttgctgtt tcaggctgcc aaatttaggg gctggaactg cccataaagg ctggcacc 720
agcagccacc ttgagaaatg cagtgatgat gctgagtggc aaggcagaag gcacagggtc 780
cctgcacctg aggtattgct ctccaaacct gggccaccag cctgaagatc ccgc 834
```

<210> 81

<211> 351

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 199507.1

<400> 81

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tgaaaatata tactctcttt ggatgaaaaa tatttaacac ttcactotca gatataatta 120
ttagctgact ttttagattc ttttttcttt tacatgatgt agttctcaga tatatacggg 180
atttctagtt cttaaagccc agtatttttt ttctgttaaa atattttatga actatttcaa 240
acattcagaa aaactcagga tcatacccat aaaccactg ttttagatttt aaaaagttca 300
atgtttttct gtattttatc tcttccattt taaaataaag ttttgcacat g 351
```

<210> 82

<211> 919

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1434821CB1

<220>

<221> unsure

<222> 15, 19, 40, 48, 55-56, 85-86, 88-299, 859, 861, 863, 866, 872, 874-875, 877, 879-881, 890, 906-907

<223> a, t, c, g, or other

<400> 82

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taaggcgcgt cccatcgcca ttcannntnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
gctctttaag caaacagagc ctgccctata aaatccgggg ctccggcggc ctctcatccc 360
tgactcgggg tcgccttttg agcagagagg aggcaatggc caccatggag aacaaggtga 420
tctgcgccct ggtcctgggt tccatgctgg ccctcggcac cctggccgag gccagacag 480
agacgtgtac agtggccccc cgtgaaagac agaattgtgg ttttcttggt gtcacgccct 540
cccagtgtgc aaataagggc tgctgtttcg acgacaccgt tcgtgggggt ccctggtgct 600
tctatcctaa taccatcgac gtccctccag aagaggagtg tgaattttag acatttctgc 660
agggatctgc ctgcacacct acgcgggtgcc gtccccagca cggtgattag tcccagagct 720
cggctgccac ctccaccgga cacctcagac acgcttctgc agctgtgcct cggctcacia 780
```

PA-0035 US

cacagattga ctgctctgac tttgactact caaaattggc ctaaaaatta aaagagatcg 840
atattaaaaa aaaaaaana nanaanggae angnnancnn ngaaagagan aaaaaaagg 900
gcggcnncca ctaatgaat 919

<210> 83

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1434821CD1

<400> 83

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Ser	Met	Leu	Ala	Leu	Gly	Thr	Leu	Ala	Glu	Ala	Gln	Thr	Glu	Thr
				20					25					30
Cys	Thr	Val	Ala	Pro	Arg	Glu	Arg	Gln	Asn	Cys	Gly	Phe	Pro	Gly
				35					40					45
Val	Thr	Pro	Ser	Gln	Cys	Ala	Asn	Lys	Gly	Cys	Cys	Phe	Asp	Asp
				50					55					60
Thr	Val	Arg	Gly	Val	Pro	Trp	Cys	Phe	Tyr	Pro	Asn	Thr	Ile	Asp
				65					70					75
Val	Pro	Pro	Glu	Glu	Glu	Cys	Glu	Phe						
				80										

<210> 84

<211> 2734

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 289671.27

<400> 84

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attggagtgg	agaactggag	agaaagggtt	gtcactgtcc	agcactacac	agctgcaggc	180
acacagatgg	tacacattcc	cagaaagaca	cataggtaga	cacgtggctg	tacacccatg	240
cacacacaaa	caatcacgca	tacctgtagg	catgtgtgta	aacacccaca	tgcacccaca	300
cccacatgcc	tggcagtaca	cagaactgta	tgcattccatt	tgtgccaggc	tggggccttg	360
agtgatagga	aaggggtctg	tgatgggtag	atagtgtggt	tggagacacg	gattttcttc	420
tgaacaaagt	ccctccccta	catggtggac	atgggatgag	acggccttca	gttacttctc	480
cttgaccccc	agggctgcct	gccgcctcat	gtaggacagg	atgtccatct	tgacgttgct	540
gaccgtggtc	cgggtggtgc	agcgcattgat	gggtatacca	tctggcccca	ccaggaactt	600
ctcaaattcc	agcggatgtc	gtgaaccttc	atgggttccc	agaagaggcg	gtcagatgta	660
cccaggagct	ccgaggtggg	aggacaggag	ttcttttagga	aagtgtagaa	tttctgctct	720
ttctctccat	tgacatcccc	tttctcaaag	agctggaaat	tagggacaaa	gcctccacct	780
ggtcggacat	acttgagggt	aggaaggatc	tctgagttct	ctcctgggtc	ctgttttcca	840
aattggttgc	agggaaagcc	ccagaatgac	cagaccgaat	ggtgcaagct	cttctctgtg	900
tgcattcagt	tcaatgtact	ggcccgtcag	gcctcagtag	ctggccacgt	tgacaaagag	960
gacgtatttg	ccagcatact	gcttgaaggg	gatgtactcc	tcccatcaa	tggtgagggc	1020
tccgtactcg	taaatgggtc	cacttatgcc	accatggcag	tccatcttcg	acttctcttg	1080
tccccggctc	tgcgagacgg	acgggtggcca	gggatcaggc	agcggctcag	gcgacctga	1140
gtgtgcccc	acccgcccat	ggccgggctg	ctgcaggcgt	cctgcctgct	ttccctgctc	1200

PA-0035 US

```
ctggccggct tcgtctcgca gagccgggga caagagaagt cgaaggctcc ccgccagatg 1260
ggcaatcccc agatggactg ccatggtggc ataagtggca ccatttacga gtacggagcc 1320
ctcaccattg atggggagga gtacatcccc ttcaagcagt atgctggcaa atacgtcctc 1380
tttgtcaacg tggccagcta ctgaggcctg acggggccagt acattgaact gaatgcacta 1440
caggaagagc ttgcaccatt cggctctggc attctgggct ttccctgcaa ccaatttgga 1500
aaacaggaac caggagagaa ctccagagatc cttctacccc tcaagtatgt ccgaccaggt 1560
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cagaaattct acactttcct aaagaactcc tgtcctccca cctcggagct cctgggtaca 1680
tctgaccgcc tcttctggga acccatgaag gttcacgaca tccgctggaa ctttgagaag 1740
ttcctggtgg ggccagatgg tatacccatc atgcgctggc accaccggac cacggtcagc 1800
aacgtcaaga tggacatcct gtcctacatg aggcggcagg cagccctggg ggtcaagagg 1860
aagtaactga aggccgtctc atcccatgtc caccatgtag gggaggggact ttgttcagga 1920
agaaatccgt gtctccaacc aactatctta cccatcacag acccctttcc tatcactcaa 1980
ggccccagcc tggcacaat ggatgcatac agttctgtgt actgccaggc atgtgggtgt 2040
gggtgcatgt ggggtgttac acacatgcct acaggtatgc gtgattgtgt gtgtgtgcat 2100
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aatagttcac ttacacctaa acccaaagga aaaaccagct ctagggtcaa ttgttctgct 2280
ctaactgata cctcaacctt ggggccagca tctccactg cctccaaata ttagtaacta 2340
tgactgacgt cccagaaagt ttctgggtct accacactcc ccaaccccc actcctactt 2400
cctgaagggc cctcccaagg ctacatcccc accccacagt tctccctgag agagatcaac 2460
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ggcgtcttca tgaggagggg gcccaaagcc cttgtgggcg gacctccctc gacgtgtct 2580
gagggggcag cccttagtgc attcaggcta aggccctgg gcagggatgc caccctgct 2640
ccttcggagg acgtgccctc accctcact ggtccactgg cttgagactc acccgtctg 2700
cccagtaaaa gcctttctgc agcagctgaa aaaa 2734
```

<210> 85

<211> 528

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1282225CB1

<400> 85

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gtgaagaggg agctctattg ccaccatgag tttctccggc aagtaccaac tgcagagcca 120
ggaaaacttt gaagccttca tgaaggcaat cggctcgccg gaagagctca tccagaaggg 180
gaaggatata aaggggggtgt cggaaatcgt gcagaatggg aagcacttca agttcaccat 240
caccgctggg tccaaagtga tccaaaacga attcacggtg ggggaggaat gtgagctgga 300
gacaatgaca ggggagaaag tcaagacagt ggttcagttg gaaggtgaca ataaactggg 360
gacagctttc aaaaacatca agtctgtgac cgaactcaac ggcgacataa tcaccaatac 420
catgacattg ggtgacattg tcttcaagag aatcagcaag agaattttaa caagtctgca 480
tttcatatta ttttagtggtg taaaattaat gtaataaagt gaactttg 528
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<210> 86

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1282225CD1

PA-0035 US

<400> 86

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  1          5          10          15
Glu Ala Phe Met Lys Ala Ile Gly Leu Pro Glu Glu Leu Ile Gln
  20          25          30
Lys Gly Lys Asp Ile Lys Gly Val Ser Glu Ile Val Gln Asn Gly
  35          40          45
Lys His Phe Lys Phe Thr Ile Thr Ala Gly Ser Lys Val Ile Gln
  50          55          60
Asn Glu Phe Thr Val Gly Glu Glu Cys Glu Leu Glu Thr Met Thr
  65          70          75
Gly Glu Lys Val Lys Thr Val Val Gln Leu Glu Gly Asp Asn Lys
  80          85          90
Leu Val Thr Ala Phe Lys Asn Ile Lys Ser Val Thr Glu Leu Asn
  95          100          105
Gly Asp Ile Ile Thr Asn Thr Met Thr Leu Gly Asp Ile Val Phe
  110          115          120
Lys Arg Ile Ser Lys Arg Ile
  125
```

<210> 87

<211> 324

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 263336.57

<400> 87

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ctgcctgact gcttggtcgt ctcaactgggtg tgagctccag catccccttt gctcgaaatg 60
gaccccaact gctcttgccg cactggctgc tgttcctgct gccccgtggg ctgtgccaag 120
tgtgcccagg gctgcgtctg caaaggggca tcggagaagt gcagctgctg tgcctgatgt 180
gggaacagct cttctcccag atgtaaatag aacaacctgc acaacctgga tttttttaa 240
aatacaacac tgagccattt gctgcatttc tttttatact aaatatgtga ctgacaataa 300
aaacaatttt gactttaaaa aaaa                               324
```

<210> 88

<211> 933

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 464689.40

<400> 88

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cacctggaat ggaagcacgt gggaagcaat gtttattggc ctaaaacatc aatgtatgtg 60
agcatctcat ctccagtga gaaatgagga aaaatacctc tgggttaaat ggcaggaatg 120
agatgctctg tggactgaat gccagggaat ggaagtattg cgaaatttca tcatcacatg 180
agaaccttcc tagaatagat ccagtgtccc tgccccctgg gtcataaggta gcggaattca 240
gttaatcctt ggcattggca tagagaaaca agttactggg gaggcctggg gcatggcatc 300
cctgccagct ggcaggagga ggtggcctgt gtgccttgca ggtgacaatg tgggcagctc 360
atgaaggtag gcttgaagcc ccaggcaagc ccagtgacct ggtcacagtg aagtgcctgt 420
gtgtgtaaga aactgacaga acgtgctgtc cctgcctcct gctctttcac atgtgtagat 480
cgtagctggg gtgaactact tcttgacgt ggagctgggc cgaaccacgt gtaccaagac 540
ccagcccaac ttggacaact gcccttcca tgaccagcca catctgaaaa ggaaagcatt 600
```

PA-0035 US

```
ctgtctctttc cagatctacg ctgtgccttg gcagggcaca atgaccttgt cgaaatccac 660
ctgtcaggac gcctaggggt ctgtaccggg ctggcctgtg cctatcacct cttatgcaca 720
cctcccaccc cctgtattcc cacccttgga ctgggtggcc ctgccttggg gaaggtctcc 780
ccatgtgcct gcaccaggag acagacagag aaggcagcag gcggcctttg ttgctcagca 840
aggggtctgc cctccctcct tccttcttgc ttctcatagc cccggtgtgc ggtgatacac 900
ccccacctcc tgcaataaaa tagtagcatc ggc 933
```

<210> 89

<211> 1788

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 155943.1

<220>

<221> unsure

<222> 32, 361, 1085, 1180, 1183, 1191, 1207, 1234, 1247, 1275, 1319,
1327-1328, 1332, 1336, 1338, 1343, 1345, 1351, 1353, 1362-1363, 1366, 1368,
1376-1378, 1380, 1383-1384, 1388, 1396, 1398-1399, 1402, 1411-1413

<223> a, t, c, g, or other

<400> 89

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tagtaaatgt tggtagtagc tctgttgaag taggtaattg tggtatgttt tgggtggtac 120
acacttgggg catggttaacc caaatttcat gtgcacgggt tcccttttagc ccactgcccc 180
aatttcacat acccttcacc ctttgttccc ttgtgtaaaag gagtgggtatc tgttttgagc 240
tgccaattca gatgatcaga aatgctgctt tcctcagcat tgtcttggtta aaccgcatgc 300
catttgggaac tttggcagtg agaagccaaa aggaagaggt gaatgacata tatatatata 360
nattcaatga aagtaaaatg tatatgctca tatactttct agttatcaga atgagttaag 420
ctttatgcca ttgggctgct gcataatttta atcagaagat aaaagaaaaat ctgggcattt 480
ttagaatgtg atacatgttt ttttaaaaact gttaaataatt atttcgatat ttgtctaaga 540
accggaatgt tcttaaaaatt tactaaaaca gtattgtttg aggaagagaa aactgtactg 600
tttgccatta ttacagtcgt acaagtgcac gtcaagtcac ccactctctc aggcattcagt 660
atccacctca tagctttaca ctttttgatg gggaatattg cagcatcctc aggcctgaca 720
tctgggaaag gctcagatcc acctactgct ccttgctcgt tgattttgtt ttaaaatatt 780
gtgcctggtg tcaactttta agcaacagca ctgcctaaaa gcaagcagag aacagaatcc 840
cagcaccatt ctataggcaa ctttttagaa ttcagatata gtaaatctgt tccagattta 900
tgatgtttta tgtaaaaaaa attttgtata ataacatagc tgaatatttt tgtttctttt 960
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caatgggttc tgagaccagc ttttccctcc cctccatttg ccttgttcca agctctttct 1080
tttcaatta cttttctgga tatcataggc aggtatttaa ttttactaaa ttagccatcc 1140
tgtgtgaatg tattaagaa gccactgtgt tttagtgtan ttngccaaaa nataaaagct 1200
gttcctnatt tgcccctatt tttttggtgt cttnaagtta tatattnaat cacagagaag 1260
caagggagaa agttnaaaga tatctaaggc tcatatcact tgattctatg gtagattana 1320
ttagaanncc cnaggnncct cgnatnatgct ngnacatggg cnatntngt gttccnnntn 1380
ggnnntcnaa gtctanann tnaaatgggt nnnaatttaa gtttatattt gcatttccaa 1440
gcgtttctaa aaatcactaa tgccatctat acttttagta tgaaacagca gactatagaa 1500
agcacagga agaataggct aaatacatc tttgaagaac cagaggcata taaccacatc 1560
attatgtcat tcctaataca tggctagatt ttctaagat aaaattgact gtgtcccaat 1620
gcttatttga ttctaagctt ttttattctg tttctgagat attttaatag ctttgcaaaa 1680
tatgctgacc agtttttgga aaataatggt ttttatagca agcaaagagc tttatggcac 1740
attttcaaaa tagcactcat acatacttac attttgacag aaatgtga 1788
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<210> 90

PA-0035 US

<211> 1111
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 243794.19c

<220>
<221> unsure
<222> 519-616, 774-963
<223> a, t, c, g, or other

<400> 90
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caacttaatg aaaccgatat ccttcgcgta ctgacggaaa cactggcggc acatattgag 180
gccatatttc cggatcagac cgtgccgggt tgaacagaca cgacaagagc gagaaccctg 240
gccgaatttt cgcgggtggc tccagtacag ctgctgggtg cccatcttgc tctcagcagt 300
gcaacgaggt aaaaggaaga agctggccca cgcctgcgct cttcaaattt ttgagacagt 360
ttaccagaaa tgcagtgtct aaaggaaacg cgtgcgcagt gtgggtcagg tgtttcgtct 420
ggtgagtaaa atgaaatctt agaggcgttg tgggctggcc cagttgatga cgtcaccata 480
ccacagcttc tagtgctatt ctgcgcgggt atccgaccnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnccga tccgggtgtcc gcactaagtt cggcatcaat atgggtgacct 660
cccgggagcg ggggaccacc aggttgccct agggagggtg aaccggccca ggtcggaaac 720
ggagcaggtc aaaactcccg tgctgatcag tagtgggacg gcgcctgtga atannnnnnn 780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 840
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 960
nnntggtgag actctatctc caacaacaaa acaaaaacct cttacaaatg aatgagaaaa 1020
aagcagatga cctaatagaa acgtaagcaa aatgcttaaa caggcacctc acaacaagtt 1080
tagccaaatg gccaatgaaa aaagatgctc t 1111

<210> 91
<211> 961
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 243794.23

<220>
<221> unsure
<222> 739
<223> a, t, c, g, or other

<400> 91
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gttgggtgga agactgtgtc ttctgtgtgt tttggatgag taccagaact ttctgcgtct 180
gtttttcacc ctaccaaatg cagtgtttac ctaaaaaatg cgttgaatag agcttcttgc 240
ttttacctcg ttgcaactgt gagagcaaga tgggtcacca gcagctgtac tggagccacc 300
cgcgaaaatt cggccagggt tctcgtctct gtctgtctgt ttcaaaccgg caccgtctga 360
tccggaaaata tggcctcaat atgtgccgcc agtgtttccg tcagtacgag aaggatatcg 420

PA-0035 US

```
gtttcattaa gttggactaa atgctcttcc ttcagaggat tatccggggc atctactcaa 480
tgaaaaacca tgataattct ttgtatataa aataaacatt tgaaaaaaca agactcgaga 540
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<211> 3041

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 159309CB1

<400> 92

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<210> 93

<211> 254

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 159309CD1

<400> 93

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20 25 30
Ala Asn Phe Phe Pro Lys Lys Leu Leu Glu Leu Asp Ser Phe Leu
35 40 45
Lys Glu Pro Ile Leu Asn Ile His Asp Leu Thr Gln Ile His Ser
50 55 60
Asp Met Asn Leu Pro Val Pro Asp Pro Ile Leu Leu Thr Asn Ser
65 70 75
His Asp Gly Leu Asp Gly Pro Thr Tyr Lys Lys Arg Arg Leu Asp
80 85 90
Glu Cys Glu Glu Ala Phe Gln Gly Thr Lys Val Phe Val Met Pro
95 100 105
Asn Gly Met Leu Lys Ser Asn Gln Gln Leu Val Asp Ile Ile Glu
110 115 120
Lys Val Lys Pro Glu Ile Arg Leu Leu Ile Glu Lys Cys Asn Thr
125 130 135
Val Lys Met Trp Val Gln Leu Leu Ile Pro Arg Ile Glu Asp Gly
140 145 150
Asn Asn Phe Gly Val Ser Ile Gln Glu Glu Thr Val Ala Glu Leu
155 160 165
Arg Thr Val Glu Ser Glu Ala Ala Ser Tyr Leu Asp Gln Ile Ser
170 175 180
Arg Tyr Tyr Ile Thr Arg Ala Lys Leu Val Ser Lys Ile Ala Lys
185 190 195
Tyr Pro His Val Glu Asp Tyr Arg Arg Thr Val Thr Glu Ile Asp
200 205 210
Glu Lys Glu Tyr Ile Ser Leu Arg Leu Ile Ile Ser Glu Leu Arg

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                215                220                225
Asn Gln Tyr Val Thr Leu His Asp Met Ile Leu Lys Asn Ile Glu
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<211> 1298

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1273641CB1

<400> 94

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<210> 95

<211> 224

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1273641CD1

<400> 95

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                20                25                30
Thr Leu Arg Asp Thr Pro Met Met Val His Thr Gly Pro Cys Cys
                35                40                45
Cys Cys Cys Pro Cys Cys Gln Arg Leu Leu Leu Thr Arg Lys Lys
                50                55                60
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Leu Gln Leu Leu Met Leu Gly Pro Phe Gln Tyr Ala Phe Leu Lys
65 70 75
Ile Thr Leu Thr Trp Trp Ala Leu Phe Ser Ser Pro Thr Glu Ser
80 85 90
Tyr Asp Pro Ala Asp Ile Ser Glu Gly Ser Thr Ala Leu Trp Ile
95 100 105
Asn Thr Phe Leu Gly Val Ser Thr Leu Leu Ala Leu Trp Thr Leu
110 115 120
Gly Ile Ile Ser Arg Gln Ala Arg Leu His Leu Gly Glu Gln Asn
125 130 135
Met Gly Ala Lys Phe Ala Leu Phe Gln Val Leu Leu Ile Leu Thr
140 145 150
Ala Leu Gln Pro Ser Ile Phe Ser Val Leu Ala Asn Gly Gly Gln
155 160 165
Ile Ala Cys Ser Pro Pro Tyr Ser Ser Lys Thr Arg Ser Gln Val
170 175 180
Met Asn Cys His Leu Leu Ile Leu Glu Thr Phe Leu Met Thr Val
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Glu Thr Phe Ser Ser Pro Asp Leu Asp Leu Asn Leu Lys Ala
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<210> 96

<211> 823

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 403717.1

<400> 96

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<210> 97

<211> 794

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 047593.1

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<221> unsure

<222> 502-546, 605-661

<223> a, t, c, g, or other

<400> 97

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tctannnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
ncacacagag ctgttacaaa taagtaatat ttaatggagg cctcttccca ccctactcta 720
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<210> 98

<211> 3722

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 347055.4

<220>

<221> unsure

<222> 104, 2838

<223> a, t, c, g, or other

<400> 98

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<213> Homo sapiens

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<210> 100

<211> 3042

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 898899.32

<220>

<221> unsure

<222> 865, 881, 888-889, 897, 1850, 3016

<223> a, t, c, g, or other

<400> 100

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<210> 101

<211> 1952

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2047630CB1

<400> 101

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<210> 102

<211> 561

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2047630CD1

<400> 102

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Ala Phe Arg Phe Glu Asn Val Asn Gly Tyr Thr Asn Cys Cys Phe
          35          40          45
Gly Phe His Arg Leu Ala Val Val Asp Pro Leu Phe Gly Met Gln
          50          55          60
Pro Ile Arg Val Lys Lys Tyr Pro Tyr Leu Trp Leu Cys Tyr Asn
          65          70          75
Gly Glu Ile Tyr Asn His Lys Lys Met Gln Gln His Phe Glu Phe
          80          85          90
Glu Tyr Gln Thr Lys Val Asp Gly Glu Ile Ile Leu His Leu Tyr
          95          100          105
Asp Lys Gly Gly Ile Glu Gln Thr Ile Cys Met Leu Asp Gly Val
          110          115          120
Phe Ala Phe Val Leu Leu Asp Thr Ala Asn Lys Lys Val Phe Leu
          125          130          135
Gly Arg Asp Thr Tyr Gly Val Arg Pro Leu Phe Lys Ala Met Thr
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Glu Asp Gly Phe Leu Ala Val Cys Ser Glu Ala Lys Gly Leu Val
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Thr Leu Lys His Ser Ala Thr Pro Phe Leu Lys Val Glu Pro Phe

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170	175	180
Leu Pro Gly His Tyr Glu Val Leu Asp	Leu Lys Pro Asn Gly Lys	
185	190	195
Val Ala Ser Val Glu Met Val Lys Tyr His His Cys Arg Asp	Glu	
200	205	210
Pro Leu His Ala Leu Tyr Asp Asn Val Glu Lys Leu Phe Pro	Gly	
215	220	225
Phe Glu Ile Glu Thr Val Lys Asn Asn Leu Arg Ile Leu Phe	Asn	
230	235	240
Asn Ala Val Lys Lys Arg Leu Met Thr Asp Arg Arg Ile Gly	Cys	
245	250	255
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275	280	285
Phe Ala Ile Gly Met Glu Asp Ser Pro Asp Leu Leu Ala Ala	Arg	
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Lys Val Ala Asp His Ile Gly Ser Glu His Tyr Glu Val Leu	Phe	
305	310	315
Asn Ser Glu Glu Gly Ile Gln Ala Leu Asp Glu Val Ile Phe	Ser	
320	325	330
Leu Glu Thr Tyr Asp Ile Thr Thr Val Arg Ala Ser Val Gly	Met	
335	340	345
Tyr Leu Ile Ser Lys Tyr Ile Arg Lys Asn Thr Asp Ser Val	Val	
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Ile Phe Ser Gly Glu Gly Ser Asp Glu Leu Thr Gln Gly Tyr	Ile	
365	370	375
Tyr Phe His Lys Ala Pro Ser Pro Glu Lys Ala Glu Glu Glu	Ser	
380	385	390
Glu Arg Leu Leu Arg Glu Leu Tyr Leu Phe Asp Val Leu Arg	Ala	
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Asp Arg Thr Thr Ala Ala His Gly Leu Glu Leu Arg Val Pro	Phe	
410	415	420
Leu Asp His Arg Phe Ser Ser Tyr Tyr Leu Ser Leu Pro Pro	Glu	
425	430	435
Met Arg Ile Pro Lys Asn Gly Ile Glu Lys His Leu Leu Arg	Glu	
440	445	450
Thr Phe Glu Asp Ser Asn Leu Ile Pro Lys Glu Ile Leu Trp	Arg	
455	460	465
Pro Lys Glu Ala Phe Ser Asp Gly Ile Thr Ser Val Lys Asn	Ser	
470	475	480
Trp Phe Lys Ile Leu Gln Glu Tyr Val Glu His Gln Val Asp	Asp	
485	490	495
Ala Met Met Ala Asn Ala Ala Gln Lys Phe Pro Phe Asn Thr	Pro	
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Lys Thr Lys Glu Gly Tyr Tyr Tyr Arg Gln Val Phe Glu Arg	His	
515	520	525
Tyr Pro Gly Arg Ala Asp Trp Leu Ser His Tyr Trp Met Pro	Lys	
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<210> 103

<211> 2764

<212> DNA

PA-0035 US

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1039889.8

<400> 103

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<210> 104

PA-0035 US

<211> 1450

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1272969CB1

<400> 104

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<210> 105

<211> 430

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1272969CD1

<400> 105

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                      35                      40                      45
Ile Ser Val Ser Arg Ser Thr Ser Phe Arg Gly Gly Met Gly Ser
                      50                      55                      60
Gly Gly Leu Ala Thr Gly Ile Ala Gly Gly Leu Ala Gly Met Gly
                      65                      70                      75
Gly Ile Gln Asn Glu Lys Glu Thr Met Gln Ser Leu Asn Asp Arg
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Arg Arg Leu Glu	Ser Lys Ile Arg Glu	His Leu Glu Lys Lys	Gly		
	110		115		120
Pro Gln Val Arg	Asp Trp Ser His Tyr	Phe Lys Ile Ile Glu	Asp		
	125		130		135
Leu Arg Ala Gln	Ile Phe Ala Asn Thr	Val Asp Asn Ala Arg	Ile		
	140		145		150
Val Leu Gln Ile	Asp Asn Ala Arg Leu	Ala Ala Asp Asp Phe	Arg		
	155		160		165
Val Lys Tyr Glu	Thr Glu Leu Ala Met	Arg Gln Ser Val Glu	Asn		
	170		175		180
Asp Ile His Gly	Leu Arg Lys Val Ile	Asp Asp Thr Asn Ile	Thr		
	185		190		195
Arg Leu Gln Leu	Glu Thr Glu Ile Glu	Ala Leu Lys Glu Glu	Leu		
	200		205		210
Leu Phe Met Lys	Lys Asn His Glu Glu	Glu Val Lys Gly Leu	Gln		
	215		220		225
Ala Gln Ile Ala	Ser Ser Gly Leu Thr	Val Glu Val Asp Ala	Pro		
	230		235		240
Lys Ser Gln Asp	Leu Ala Lys Ile Met	Ala Asp Ile Arg Ala	Gln		
	245		250		255
Tyr Asp Glu Leu	Ala Arg Lys Asn Arg	Glu Glu Leu Asp Lys	Tyr		
	260		265		270
Trp Ser Gln Gln	Ile Glu Glu Ser Thr	Thr Val Val Thr Thr	Gln		
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	290		295		300
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	305		310		315
Leu Lys Ala Ser	Leu Glu Asn Ser Leu	Arg Glu Val Glu Ala	Arg		
	320		325		330
Tyr Ala Leu Gln	Met Glu Gln Leu Asn	Gly Ile Leu Leu His	Leu		
	335		340		345
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<211> 6290

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<213> Homo sapiens

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<223> Incyte ID No: 282397.85c

<400> 106

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<211> 622

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<213> Homo sapiens

PA-0035 US

<220>

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<223> Incyte ID No: 282397.94

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<211> 1521

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 1448817CB1

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<211> 259

PA-0035 US

<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: 1448817CD1

<400> 109

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<211> 919

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 1100769.2

<220>

<221> unsure

<222> 867

PA-0035 US

<223> a, t, c, g, or other

<400> 110

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<211> 1456

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<213> Homo sapiens

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<223> Incyte ID No: 332521.1

<220>

<221> unsure

<222> 128, 131, 141-160, 910, 923-947

<223> a, t, c, g, or other

<400> 111

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PA-0035 US

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<211> 4346

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 225080.16

<400> 112

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PA-0035 US

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tgaggacaa	gtactccaaa	agtggcattg	cttgttttct	aaaagaagat	gacagttatt	300
gggaccccaa	tgacgaagag	agtatgaaca	gccccctgct	gcaagtcaag	tggaactcc	360
gtcagctcgt	tagaaagatg	attttgagaa	cctctgagga	aacctttct	acagttcaag	420
aaaagcaaca	aaatatttct	ccctagtga	gagaagagg	tccctagaga	gtagcagtc	480
acataactgg	gaccagagga	agaagcaaca	cattgtcttc	tccaaactcc	aagaatgaaa	540
aggctctggg	ccgcaaaata	aactcctggg	aatcatcaag	gagtgggcat	tcattcctga	600
gcaacttgca	cttgaggaat	ggtgaactgg	tcatccatga	aaaagggttt	tactacatct	660
actcccaaac	atactttcga	tttcaggagg	aaataaaaga	aaacacaaag	aacgacaaac	720
aaatggtcca	atatatttac	aaatacacaa	gttatcctga	ccctatattg	ttgatgaaaa	780
gtgctagaaa	tagttgtttg	tctaaagatg	cagaatatgg	actctattcc	atctatcaag	840
ggggaatatt	tgagcttaag	gaaaatgaca	gaatttttgt	ttctgtaaca	aatgagcact	900
tgatagacat	ggaccttgaa	gccagttttt	tttgggcctt	tttagttggc	taactgacct	960
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atgcaatctg	agttagcgag	ccacaaccaa	aaaattctac	aacacacact	gttctgaaag	1140
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tcagtttgct	agcagaaatc	tagaagactg	tcagcttcca	aacattaatg	caatgggttaa	1260
catcttctgt	ctttataatc	tactccttgt	aaagactgta	gaagaaagcg	caacaatcca	1320
tctctcaagt	agtgtatcac	agtagtagcc	tccagggttc	cttaaggggac	aacatcctta	1380
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acctgtaatc	ccaacatttt	gggaacccaa	ggtgggtaga	tcacgagatc	aagagatcaa	1500
gacctatagt	accaacatag	tgaaccccca	tctctactga	aagtgcaaaa	attagctggg	1560
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<210> 118
<211> 281
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 059509CD1

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20 25 30
Val Ala Val Thr Tyr Val Tyr Phe Thr Asn Glu Leu Lys Gln Met
35 40 45
Gln Asp Lys Tyr Ser Lys Ser Gly Ile Ala Cys Phe Leu Lys Glu
50 55 60
Asp Asp Ser Tyr Trp Asp Pro Asn Asp Glu Glu Ser Met Asn Ser
65 70 75
Pro Cys Trp Gln Val Lys Trp Gln Leu Arg Gln Leu Val Arg Lys
80 85 90
Met Ile Leu Arg Thr Ser Glu Glu Thr Ile Ser Thr Val Gln Glu
95 100 105
Lys Gln Gln Asn Ile Ser Pro Leu Val Arg Glu Arg Gly Pro Gln
110 115 120
Arg Val Ala Ala His Ile Thr Gly Thr Arg Gly Arg Ser Asn Thr
125 130 135
Leu Ser Ser Pro Asn Ser Lys Asn Glu Lys Ala Leu Gly Arg Lys
140 145 150
Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly His Ser Phe Leu Ser
155 160 165
Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile His Glu Lys Gly
170 175 180
Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe Gln Glu Glu
185 190 195
Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln Tyr Ile
200 205 210
Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys Ser
215 220 225
Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr
230 235 240
Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg
245 250 255
Ile Phe Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His
260 265 270
Glu Ala Ser Phe Phe Gly Ala Phe Leu Val Gly
275 280

<210> 119
<211> 593
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 481231.14

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<400> 119

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gcggtgc	tga	ccttg	gcggt	gctcttc	cctg	acgggg	agcc	aggctcg	gca	tttctgg	cag	180
caagatg	aac	cccc	cagag	cccctg	gggat	cgagtga	agg	acctgg	ccac	tgtgtac	gtg	240
gatgtgc	tca	aagaca	gcgg	cagagac	tat	gtgtccc	agt	ttgaagg	ctc	cgccttg	gga	300
aaacagc	taa	acctaa	agct	ccttgac	aac	tgggac	agcg	tgacct	ccac	cttcag	caa	360
ctgcgcg	aac	agctc	ggccc	tgtgac	ccag	gagttct	ggg	ataacct	gga	aaaggag	aca	420
gagggc	tga	ggcagg	agat	gagca	aggat	ctggagg	agg	tgaagg	ccaa	gggtgc	agccc	480
gcgctcg	agg	acctcc	gcca	aggcct	gctg	cccgtg	ctgg	agagctt	caa	ggtcag	cttc	540
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<210> 120

<211> 2218

<212> DNA

<213> Homo sapiens

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<400> 120

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tgaagg	agga	ggcgtg	cggtg	gcccagg	gt	tgtggaa	aga	catca	atctg	cctgcaa	aga	180
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aaattc	acta	tttgaat	atc	agaaga	aaca	taaggat	tct	cattc	gttga	ccactaa	tat	360
aatggaa	att	ttgagag	ggcg	atttttc	ctc	agccaata	aac	cgtga	tata	cctaca	accg	420
agtgtc	agag	gatctga	gaa	gcagaat	tga	agtcctg	aag	cgcaa	agtca	tagaaaa	agt	480
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ggcatta	aaca	gacatg	ccgc	agatgag	aat	ggagtt	agag	agacct	gggtg	gaaatg	agat	840
tactcg	agga	ggctcc	acct	cttatg	gaac	cggatc	agag	acggaa	agcc	ccagga	accc	900
tagcagt	gct	ggaagct	gga	actctg	ggag	ctctgg	acct	ggaagt	actg	gaaacc	gaaa	960
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tgggag	ccct	agacct	ggta	gtaccg	gaac	ctgga	atcct	ggcag	ctctg	aacgcg	gaag	1140
tgctggg	cac	tggacct	ctg	agagct	ctgt	atctgg	tagt	actgg	acaat	ggcact	ctga	1200
atctgga	agt	tttagg	ccag	atagcc	cagg	ctctgg	gaac	gcgag	gccta	acaacc	caga	1260
ctgggg	caca	tttga	agagg	tgtcag	gaaa	tgtaa	gtcca	gggaca	agga	gagagt	acca	1320
cacagaaa	aaa	ctggtc	actt	ctaaag	gaga	taaag	agctc	aggact	ggta	aagaga	agg	1380
cacctgt	ggt	agcaca	acca	ccacgc	gtcg	ttcatg	ctct	aaaacc	gtta	ctaag	actgt	1440
tattgtc	cct	gatggt	caca	agaagt	tac	caaaga	agtg	gtgac	ctccg	aagat	ggttc	1500
tgactgt	ccc	gaggca	aatgg	atttag	gcac	attgtc	tggc	atagg	tactc	tggat	gggtt	1560
ccgccat	ag	cacctg	atg	aagctg	ccct	cttcg	acact	gcctca	actg	gaaaa	acatt	1620
cccaggt	ttc	ttctc	acct	tgttag	gaga	gtttgt	cagt	gagact	gagt	ctaggg	gctc	1680
agaatct	ggc	atcttc	acaa	atacaa	agga	atccag	ttct	catcac	ccctg	ggatag	ctga	1740
attccct	tcc	cgtgg	taaa	cttcaa	gtta	cagcaa	acaa	tttact	tagta	gcacg	agtta	1800
caacag	agga	gactcc	acat	ttgaa	gcaa	gagct	tataa	atggc	agatg	aggccg	gaag	1860
tgaagc	cgat	catga	aggaa	cacatag	cac	caagag	aggc	catgc	ttaat	ctgc	ccctgt	1920
cagaggt	atc	cacact	tctc	ctttgg	ggaa	gccttc	ccctg	tcccc	ctaga	ctaagt	ttaa	1980
tatttct	gca	cagtgt	tccc	atggc	ccctt	gcatttc	cctt	cttaac	tctc	tgttac	acgt	2040

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cattgaaact acactttttt ggtctgtttt tgtgctagac tgtaagttcc ttgggggcag 2100
ggcctttgtc tgtctcatct ctgtattccc aaatgcctaa cagtacagag ccatgactca 2160
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<210> 121

<211> 644

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 280276CD1

<400> 121

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Thr	Ala	Trp	Thr	Ala	Asp	Ser	Gly	Glu	Gly	Asp	Phe	Leu	Ala	Glu	
				20					25					30	
Gly	Gly	Gly	Val	Arg	Gly	Pro	Arg	Val	Val	Glu	Arg	His	Gln	Ser	
				35					40					45	
Ala	Cys	Lys	Asp	Ser	Asp	Trp	Pro	Phe	Cys	Ser	Asp	Glu	Asp	Trp	
				50					55					60	
Asn	Tyr	Lys	Cys	Pro	Ser	Gly	Cys	Arg	Met	Lys	Gly	Leu	Ile	Asp	
				65					70					75	
Glu	Val	Asn	Gln	Asp	Phe	Thr	Asn	Arg	Ile	Asn	Lys	Leu	Lys	Asn	
				80					85					90	
Ser	Leu	Phe	Glu	Tyr	Gln	Lys	Asn	Asn	Lys	Asp	Ser	His	Ser	Leu	
				95					100					105	
Thr	Thr	Asn	Ile	Met	Glu	Ile	Leu	Arg	Gly	Asp	Phe	Ser	Ser	Ala	
				110					115					120	
Asn	Asn	Arg	Asp	Asn	Thr	Tyr	Asn	Arg	Val	Ser	Glu	Asp	Leu	Arg	
				125					130					135	
Ser	Arg	Ile	Glu	Val	Leu	Lys	Arg	Lys	Val	Ile	Glu	Lys	Val	Gln	
				140					145					150	
His	Ile	Gln	Leu	Leu	Gln	Lys	Asn	Val	Arg	Ala	Gln	Leu	Val	Asp	
				155					160					165	
Met	Lys	Arg	Leu	Glu	Val	Asp	Ile	Asp	Ile	Lys	Ile	Arg	Ser	Cys	
				170					175					180	
Arg	Gly	Ser	Cys	Ser	Arg	Ala	Leu	Ala	Arg	Glu	Val	Asp	Leu	Lys	
				185					190					195	
Asp	Tyr	Glu	Asp	Gln	Gln	Lys	Gln	Leu	Glu	Gln	Val	Ile	Ala	Lys	
				200					205					210	
Asp	Leu	Leu	Pro	Ser	Arg	Asp	Arg	Gln	His	Leu	Pro	Leu	Ile	Lys	
				215					220					225	
Met	Lys	Pro	Val	Pro	Asp	Leu	Val	Pro	Gly	Asn	Phe	Lys	Ser	Gln	
				230					235					240	
Leu	Gln	Lys	Val	Pro	Pro	Glu	Trp	Lys	Ala	Leu	Thr	Asp	Met	Pro	
				245					250					255	
Gln	Met	Arg	Met	Glu	Leu	Glu	Arg	Pro	Gly	Gly	Asn	Glu	Ile	Thr	
				260					265					270	
Arg	Gly	Gly	Ser	Thr	Ser	Tyr	Gly	Thr	Gly	Ser	Glu	Thr	Glu	Ser	
				275					280					285	
Pro	Arg	Asn	Pro	Ser	Ser	Ala	Gly	Ser	Trp	Asn	Ser	Gly	Ser	Ser	
				290					295					300	
Gly	Pro	Gly	Ser	Thr	Gly	Asn	Arg	Asn	Pro	Gly	Ser	Ser	Gly	Thr	
				305					310					315	

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Gly	Gly	Thr	Ala	Thr	Trp	Lys	Pro	Gly	Ser	Ser	Gly	Pro	Gly	Ser	
				320					325					330	
Thr	Gly	Ser	Trp	Asn	Ser	Gly	Ser	Ser	Gly	Thr	Gly	Ser	Thr	Gly	
				335					340					345	
Asn	Gln	Asn	Pro	Gly	Ser	Pro	Arg	Pro	Gly	Ser	Thr	Gly	Thr	Trp	
				350					355					360	
Asn	Pro	Gly	Ser	Ser	Glu	Arg	Gly	Ser	Ala	Gly	His	Trp	Thr	Ser	
				365					370					375	
Glu	Ser	Ser	Val	Ser	Gly	Ser	Thr	Gly	Gln	Trp	His	Ser	Glu	Ser	
				380					385					390	
Gly	Ser	Phe	Arg	Pro	Asp	Ser	Pro	Gly	Ser	Gly	Asn	Ala	Arg	Pro	
				395					400					405	
Asn	Asn	Pro	Asp	Trp	Gly	Thr	Phe	Glu	Glu	Val	Ser	Gly	Asn	Val	
				410					415					420	
Ser	Pro	Gly	Thr	Arg	Arg	Glu	Tyr	His	Thr	Glu	Lys	Leu	Val	Thr	
				425					430					435	
Ser	Lys	Gly	Asp	Lys	Glu	Leu	Arg	Thr	Gly	Lys	Glu	Lys	Val	Thr	
				440					445					450	
Ser	Gly	Ser	Thr	Thr	Thr	Thr	Arg	Arg	Ser	Cys	Ser	Lys	Thr	Val	
				455					460					465	
Thr	Lys	Thr	Val	Ile	Gly	Pro	Asp	Gly	His	Lys	Glu	Val	Thr	Lys	
				470					475					480	
Glu	Val	Val	Thr	Ser	Glu	Asp	Gly	Ser	Asp	Cys	Pro	Glu	Ala	Met	
				485					490					495	
Asp	Leu	Gly	Thr	Leu	Ser	Gly	Ile	Gly	Thr	Leu	Asp	Gly	Phe	Arg	
				500					505					510	
His	Arg	His	Pro	Asp	Glu	Ala	Ala	Phe	Phe	Asp	Thr	Ala	Ser	Thr	
				515					520					525	
Gly	Lys	Thr	Phe	Pro	Gly	Phe	Phe	Ser	Pro	Met	Leu	Gly	Glu	Phe	
				530					535					540	
Val	Ser	Glu	Thr	Glu	Ser	Arg	Gly	Ser	Glu	Ser	Gly	Ile	Phe	Thr	
				545					550					555	
Asn	Thr	Lys	Glu	Ser	Ser	Ser	His	His	Pro	Gly	Ile	Ala	Glu	Phe	
				560					565					570	
Pro	Ser	Arg	Gly	Lys	Ser	Ser	Ser	Tyr	Ser	Lys	Gln	Phe	Thr	Ser	
				575					580					585	
Ser	Thr	Ser	Tyr	Asn	Arg	Gly	Asp	Ser	Thr	Phe	Glu	Ser	Lys	Ser	
				590					595					600	
Tyr	Lys	Met	Ala	Asp	Glu	Ala	Gly	Ser	Glu	Ala	Asp	His	Glu	Gly	
				605					610					615	
Thr	His	Ser	Thr	Lys	Arg	Gly	His	Ala	Lys	Ser	Arg	Pro	Val	Arg	
				620					625					630	
Gly	Ile	His	Thr	Ser	Pro	Leu	Gly	Lys	Pro	Ser	Leu	Ser	Pro		
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<210> 122

<211> 1712

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4675668CB1

<400> 122

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 aagcggagga agagtatgtg gggccccggc tgagccgacg gattttgcag caagcacggc 240
 agcaacagga ggaactcgag gccgagcatg ggactgggga caagcccgcg gcgccgcggg 300
 aacgcaccac gcggtcgggt ccaagaatgc ctgaggatgg atcagatgac gaggacgagg 360
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 tcccagtcga ggacaggaag gactgagggt ctggctggtt ccctcttcca ttctaggccc 1560
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<210> 123

<211> 437

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4675668CD1

<400> 123

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His	Ala	Pro	Leu	Ala	Asp	Gln	Ile	Leu	Ala	Gly	Asn	Ala	Val	Arg
			20						25					30
Ala	Gly	Val	Arg	Glu	Lys	Arg	Arg	Gly	Arg	Gly	Thr	Gly	Glu	Ala
			35						40					45
Glu	Glu	Glu	Tyr	Val	Gly	Pro	Arg	Leu	Ser	Arg	Arg	Ile	Leu	Gln
			50						55					60
Gln	Ala	Arg	Gln	Gln	Gln	Glu	Glu	Leu	Glu	Ala	Glu	His	Gly	Thr
			65						70					75
Gly	Asp	Lys	Pro	Ala	Ala	Pro	Arg	Glu	Arg	Thr	Thr	Arg	Leu	Gly
			80						85					90
Pro	Arg	Met	Pro	Gln	Asp	Gly	Ser	Asp	Asp	Glu	Asp	Glu	Glu	Trp
			95						100					105
Pro	Thr	Leu	Glu	Lys	Ala	Ala	Thr	Met	Thr	Ala	Ala	Gly	His	His
			110						115					120
Ala	Glu	Val	Val	Val	Asp	Pro	Glu	Asp	Glu	Arg	Ala	Ile	Glu	Met
			125						130					135

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Phe Met Asn Lys Asn Pro Pro Ala Arg Arg Thr Leu Ala Asp Ile
140 145 150
Ile Met Glu Lys Leu Thr Glu Lys Gln Thr Glu Val Glu Thr Val
155 160 165
Met Ser Glu Val Ser Gly Phe Pro Met Pro Gln Leu Asp Pro Arg
170 175 180
Val Leu Glu Val Tyr Arg Gly Val Arg Glu Val Leu Ser Lys Tyr
185 190 195
Arg Ser Gly Lys Leu Pro Lys Ala Phe Lys Ile Ile Pro Ala Leu
200 205 210
Ser Asn Trp Glu Gln Ile Leu Tyr Val Thr Glu Pro Glu Ala Trp
215 220 225
Thr Ala Ala Ala Met Tyr Gln Ala Thr Arg Ile Phe Ala Ser Asn
230 235 240
Leu Lys Glu Arg Met Ala Gln Arg Phe Tyr Asn Leu Val Leu Leu
245 250 255
Pro Arg Val Arg Asp Asp Val Ala Glu Tyr Lys Arg Leu Asn Phe
260 265 270
His Leu Tyr Met Ala Leu Lys Lys Ala Leu Phe Lys Pro Gly Ala
275 280 285
Trp Phe Lys Gly Ile Leu Ile Pro Leu Cys Glu Ser Gly Thr Cys
290 295 300
Thr Leu Arg Glu Ala Ile Ile Val Gly Ser Ile Ile Thr Lys Cys
305 310 315
Ser Ile Pro Val Leu His Ser Ser Ala Ala Met Leu Lys Ile Ala
320 325 330
Glu Met Glu Tyr Ser Gly Ala Asn Ser Ile Phe Leu Arg Leu Leu
335 340 345
Leu Asp Lys Lys Tyr Ala Leu Pro Tyr Arg Val Leu Asp Ala Leu
350 355 360
Val Phe His Phe Leu Gly Phe Arg Thr Glu Lys Arg Glu Leu Pro
365 370 375
Val Leu Trp His Gln Cys Leu Leu Thr Leu Val Gln Arg Tyr Lys
380 385 390
Ala Asp Leu Ala Thr Asp Gln Lys Glu Ala Leu Leu Glu Leu Leu
395 400 405
Arg Leu Gln Pro His Pro Gln Leu Ser Pro Glu Ile Arg Arg Glu
410 415 420
Leu Gln Ser Ala Val Pro Arg Asp Val Glu Asp Val Pro Ile Thr
425 430 435
Val Glu

<210> 124

<211> 2177

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 153825.1

<400> 124

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<210> 125

<211> 2230

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 403484.2c

<400> 125

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 tgacaggatg ctggaacgcc gagagatggg atgctttatt tttcattatc caccagcttg 420
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 ccgtctctca ggccttgtgc aacatggccc tggctgctca ctccagccct gcctgacttt 540
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<210> 126

<211> 2143

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1459432CB1

<400> 126

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 catgatccac cagctcatgg gcaatggggg gtggcacttt ggggagacca tgtgcacctc 540
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<210> 127

<211> 353

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1459432CD1

<400> 127

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Asn	Thr	Ser	Asp	Gly	Pro	Asp	Asn	Leu	Thr	Ser	Ala	Gly	Ser	Pro
				20					25					30
Pro	Arg	Thr	Gly	Ser	Ile	Ser	Tyr	Ile	Asn	Ile	Ile	Met	Pro	Ser
				35					40					45
Val	Phe	Gly	Thr	Ile	Cys	Leu	Leu	Gly	Ile	Ile	Gly	Asn	Ser	Thr
				50					55					60
Val	Ile	Phe	Ala	Val	Val	Lys	Lys	Ser	Lys	Leu	His	Trp	Cys	Asn
				65					70					75
Asn	Val	Pro	Asp	Ile	Phe	Ile	Ile	Asn	Leu	Ser	Val	Val	Asp	Leu
				80					85					90
Leu	Phe	Leu	Leu	Gly	Met	Pro	Phe	Met	Ile	His	Gln	Leu	Met	Gly
				95					100					105
Asn	Gly	Val	Trp	His	Phe	Gly	Glu	Thr	Met	Cys	Thr	Leu	Ile	Thr
				110					115					120
Ala	Met	Asp	Ala	Asn	Ser	Gln	Phe	Thr	Ser	Thr	Tyr	Ile	Leu	Thr
				125					130					135
Ala	Met	Ala	Ile	Asp	Arg	Tyr	Leu	Ala	Thr	Val	His	Pro	Ile	Ser
				140					145					150
Ser	Thr	Lys	Phe	Arg	Lys	Pro	Ser	Val	Ala	Thr	Leu	Val	Ile	Cys
				155					160					165
Leu	Leu	Trp	Ala	Leu	Ser	Phe	Ile	Ser	Ile	Thr	Pro	Val	Trp	Leu
				170					175					180
Tyr	Ala	Arg	Leu	Ile	Pro	Phe	Pro	Gly	Gly	Ala	Val	Gly	Cys	Gly
				185					190					195
Ile	Arg	Leu	Pro	Asn	Pro	Asp	Thr	Asp	Leu	Tyr	Trp	Phe	Thr	Leu
				200					205					210

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Tyr Gln Phe Phe Leu Ala Phe Ala Leu Pro Phe Val Val Ile Thr
215 220 225
Ala Ala Tyr Val Arg Ile Leu Gln Arg Met Thr Ser Ser Val Ala
230 235 240
Pro Thr Ser Gln Arg Ser Ile Arg Leu Arg Thr Lys Arg Val Thr
245 250 255
Arg Thr Ala Ile Ala Ile Cys Leu Val Phe Phe Val Cys Trp Ala
260 265 270
Pro Tyr Tyr Val Leu Gln Leu Thr Gln Leu Ser Ile Ser Arg Pro
275 280 285
Thr Pro Thr Phe Val Tyr Leu Tyr Asn Ala Ala Ile Ser Leu Gly
290 295 300
Tyr Ala Asn Ser Cys Leu Asn Pro Phe Val Tyr Ile Val Leu Cys
305 310 315
Glu Thr Phe Arg Lys Arg Leu Val Leu Ser Val Lys Pro Ala Ala
320 325 330
Gln Gly Gln Leu Arg Ala Val Ser Asn Ala Gln Ala Ala Asp Glu
335 340 345
Glu Arg Thr Glu Ser Lys Gly Thr
350

<210> 128

<211> 424

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1096583.1

<400> 128

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<210> 129

<211> 763

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 516300CB1

<400> 129

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gaaagtcggc atctctgtgc ttctcagaaa tccagcctgc ttcagcttca aaacacagat 480
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gagcacaccg cctgggttggt ggagaatggc tctgcactct cccagtatct atttccatca 600
tttgaaactt ttaatacaaa gaactgcata gcgtataatc caaatggaaa tgctttagat 660
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ggggcagaga aggtggagag taaagaccca acattactaa caa 763

<210> 130

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 516300CD1

<400> 130

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Leu	Gly	Ile	Ile	Cys	Leu	Ser	Leu	Met	Ala	Thr	Leu	Gly	Ile	Leu
				20					25					30
Leu	Lys	Asn	Ser	Phe	Thr	Lys	Leu	Ser	Ile	Glu	Pro	Ala	Phe	Thr
				35					40					45
Pro	Gly	Pro	Asn	Ile	Glu	Leu	Gln	Lys	Asp	Ser	Asp	Cys	Cys	Ser
				50					55					60
Cys	Gln	Glu	Lys	Trp	Val	Gly	Tyr	Arg	Cys	Asn	Cys	Tyr	Phe	Ile
				65					70					75
Ser	Ser	Glu	Gln	Lys	Thr	Trp	Asn	Glu	Ser	Arg	His	Leu	Cys	Ala
				80					85					90
Ser	Gln	Lys	Ser	Ser	Leu	Leu	Gln	Leu	Gln	Asn	Thr	Asp	Glu	Leu
				95					100					105
Asp	Phe	Met	Ser	Ser	Ser	Gln	Gln	Phe	Tyr	Trp	Ile	Gly	Leu	Ser
				110					115					120
Tyr	Ser	Glu	Glu	His	Thr	Ala	Trp	Leu	Trp	Glu	Asn	Gly	Ser	Ala
				125					130					135
Leu	Ser	Gln	Tyr	Leu	Phe	Pro	Ser	Phe	Glu	Thr	Phe	Asn	Thr	Lys
				140					145					150
Asn	Cys	Ile	Ala	Tyr	Asn	Pro	Asn	Gly	Asn	Ala	Leu	Asp	Glu	Ser
				155					160					165
Cys	Glu	Asp	Lys	Asn	Arg	Tyr	Ile	Cys	Lys	Gln	Gln	Leu	Ile	
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<210> 131

<211> 1449

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 627856CB1

<400> 131

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tgtgaatgaa gccatctccc actgggaact gcagtctgag ggtggccaat ctgcagcccc 360
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<210> 132

<211> 301

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 627856CD1

<400> 132

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Leu	Gln	Pro	His	Pro	Leu	Pro	Pro	Gly	Pro	Ala	Val	Arg	Thr	Phe
				20					25					30
Asp	Ala	Ser	Leu	Leu	Thr	Glu	Gly	Ile	Thr	Val	Ala	Ser	Leu	Leu
				35					40					45
Pro	Glu	Phe	Val	Ile	Leu	Arg	Asp	Glu	Lys	Trp	Gly	Gly	Asn	Lys
				50					55					60
Thr	Tyr	Thr	Ala	Tyr	Val	Asp	Leu	Glu	Lys	Asp	Phe	Ala	Ala	Glu
				65					70					75
Val	Val	His	Pro	Gly	Asp	Leu	Lys	Asn	Ser	Val	Glu	Val	Ala	Leu
				80					85					90
Asn	Lys	Leu	Leu	Asp	Pro	Ile	Arg	Glu	Lys	Phe	Asn	Thr	Pro	Ala
				95					100					105
Leu	Lys	Lys	Leu	Ala	Ser	Ala	Ala	Tyr	Pro	Asp	Pro	Ser	Lys	Gln
				110					115					120
Lys	Pro	Met	Ala	Lys	Gly	Pro	Ala	Lys	Asn	Ser	Glu	Pro	Glu	Glu
				125					130					135
Val	Ile	Pro	Ser	Arg	Leu	Asp	Ile	Arg	Val	Gly	Lys	Ile	Ile	Thr
				140					145					150
Val	Glu	Lys	His	Pro	Asp	Ala	Asp	Ser	Leu	Tyr	Val	Glu	Lys	Ile
				155					160					165
Asp	Val	Gly	Glu	Ala	Glu	Pro	Arg	Thr	Val	Val	Ser	Gly	Leu	Val
				170					175					180
Gln	Phe	Val	Pro	Lys	Glu	Glu	Leu	Gln	Asp	Arg	Leu	Val	Val	Val

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	185		190		195
Leu Cys Asn Leu Lys Pro Gln Lys Met Arg Gly Val Glu Ser Gln					
	200		205		210
Gly Met Leu Leu Cys Ala Ser Ile Glu Gly Ile Asn Arg Gln Val					
	215		220		225
Glu Pro Leu Asp Pro Pro Ala Gly Ser Ala Pro Gly Glu His Val					
	230		235		240
Phe Val Lys Gly Tyr Glu Lys Gly Gln Pro Asp Glu Glu Leu Lys					
	245		250		255
Pro Lys Lys Lys Val Phe Glu Lys Leu Gln Ala Asp Phe Lys Ile					
	260		265		270
Ser Glu Glu Cys Ile Ala Gln Trp Lys Gln Thr Asn Phe Met Thr					
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Lys Leu Gly Ser Ile Ser Cys Lys Ser Leu Lys Gly Gly Asn Ile					
	290		295		300

Ser

<210> 133

<211> 3482

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1823159CB1

<400> 133

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<210> 134

<211> 603

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1823159CD1

<400> 134

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 20 25 30
 Leu Thr Glu Ala Val Pro Arg Leu Pro Gly Glu Thr Leu Ile Thr
 35 40 45
 Asp Lys Glu Val Ile Tyr Ile Cys Pro Phe Asn Gly Pro Ile Lys
 50 55 60
 Gly Arg Val Tyr Ile Thr Asn Tyr Arg Leu Tyr Leu Arg Ser Leu
 65 70 75
 Glu Thr Asp Ser Ser Leu Ile Leu Asp Val Pro Leu Gly Val Ile
 80 85 90
 Ser Arg Ile Glu Lys Met Gly Gly Ala Thr Ser Arg Gly Glu Asn
 95 100 105
 Ser Tyr Gly Leu Asp Ile Thr Cys Lys Asp Met Arg Asn Leu Arg

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	110		115		120
Phe Ala Leu Lys	Gln Glu Gly His Ser	Arg Arg Asp Met Phe	Glu		
	125		130		135
Ile Leu Thr Arg	Tyr Ala Phe Pro Leu	Ala His Ser Leu Pro	Leu		
	140		145		150
Phe Ala Phe Leu	Asn Glu Glu Lys Phe	Asn Val Asp Gly Trp	Thr		
	155		160		165
Val Tyr Asn Pro	Val Glu Glu Tyr Arg	Arg Gln Gly Leu Pro	Asn		
	170		175		180
His His Trp Arg	Ile Thr Phe Ile Asn	Lys Cys Tyr Glu Leu	Cys		
	185		190		195
Asp Thr Tyr Pro	Ala Leu Leu Val Val	Pro Tyr Arg Ala Ser	Asp		
	200		205		210
Asp Asp Leu Arg	Arg Val Ala Thr Phe	Arg Ser Arg Asn Arg	Ile		
	215		220		225
Pro Val Leu Ser	Trp Ile His Pro Glu	Asn Lys Thr Val Ile	Val		
	230		235		240
Arg Cys Ser Gln	Pro Leu Val Gly Met	Ser Gly Lys Arg Asn	Lys		
	245		250		255
Asp Asp Glu Lys	Tyr Leu Asp Val Ile	Arg Glu Thr Asn Lys	Gln		
	260		265		270
Ile Ser Lys Leu	Thr Ile Tyr Asp Ala	Arg Pro Ser Val Asn	Ala		
	275		280		285
Val Ala Asn Lys	Ala Thr Gly Gly Gly	Tyr Glu Ser Asp Asp	Ala		
	290		295		300
Tyr His Asn Ala	Glu Leu Phe Phe Leu	Asp Ile His Asn Ile	His		
	305		310		315
Val Met Arg Glu	Ser Leu Lys Lys Val	Lys Asp Ile Val Tyr	Pro		
	320		325		330
Asn Val Glu Glu	Ser His Trp Leu Ser	Ser Leu Glu Ser Thr	His		
	335		340		345
Trp Leu Glu His	Ile Lys Leu Val Leu	Thr Gly Ala Ile Gln	Val		
	350		355		360
Ala Asp Lys Val	Ser Ser Gly Lys Ser	Ser Val Leu Val His	Cys		
	365		370		375
Ser Asp Gly Trp	Asp Arg Thr Ala Gln	Leu Thr Ser Leu Ala	Met		
	380		385		390
Leu Met Leu Asp	Ser Phe Tyr Arg Ser	Ile Glu Gly Phe Glu	Ile		
	395		400		405
Leu Val Gln Lys	Glu Trp Ile Ser Phe	Gly His Lys Phe Ala	Ser		
	410		415		420
Arg Ile Gly His	Gly Asp Lys Asn His	Thr Asp Ala Asp Arg	Ser		
	425		430		435
Pro Ile Phe Leu	Gln Phe Ile Asp Cys	Val Trp Gln Met Ser	Lys		
	440		445		450
Gln Phe Pro Thr	Ala Phe Glu Phe Asn	Glu Gln Phe Leu Ile	Ile		
	455		460		465
Ile Leu Asp His	Leu Tyr Ser Cys Arg	Phe Gly Thr Phe Leu	Phe		
	470		475		480
Asn Cys Glu Ser	Ala Arg Glu Arg Gln	Lys Val Thr Glu Arg	Thr		
	485		490		495
Val Ser Leu Trp	Ser Leu Ile Asn Ser	Asn Lys Glu Lys Phe	Lys		
	500		505		510
Asn Pro Phe Tyr	Thr Lys Glu Ile Asn	Arg Val Leu Tyr Pro	Val		
	515		520		525
Ala Ser Met Arg	His Leu Glu Leu Trp	Val Asn Tyr Tyr Ile	Arg		

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530	535	540
Trp Asn Pro Arg Ile Lys Gln Gln Gln	Pro Asn Pro Val Glu Gln	
545	550	555
Arg Tyr Met Glu Leu Leu Ala Leu Arg	Asp Glu Tyr Ile Lys Arg	
560	565	570
Leu Glu Glu Leu Gln Leu Ala Asn Ser	Ala Lys Leu Ser Asp Pro	
575	580	585
Pro Thr Ser Pro Ser Ser Pro Ser Gln	Met Met Pro His Val Gln	
590	595	600
Thr His Phe		

<210> 135

<211> 1223

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 232567.4

<400> 135

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ccgcgcgggc	tgggaactgc	tggctccgtc	aagcgaagaa	cgcccgctgc	caggctctgt	240
acaagaccga	actgagcaag	gaggagtgc	gcagcaccgg	ccggctgagc	acctcgagg	300
ccgaggagga	cgtgaatgac	aacacactct	tcaagtggat	gattttcaac	gggggcgccc	360
ccaactgcat	cccctgtaaa	gaaacgtgtg	agaacgtgga	ctgtggacct	gggaaaaaat	420
gccgaatgaa	caagaagaac	aaaccccgct	gcgtctgcgc	cccggattgt	tccaacatca	480
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aaagacttgt	cgggatgttt	tctgtccagg	cagctccaca	tgtgtgggtg	accagaccaa	660
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agaggaggaa	gatgaagacc	aggactacag	ctttctata	tcttctattc	tagagtggta	1140
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taaatacgcg	acgacgcggc	gta				1223

<210> 136

<211> 648

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 218419.1

<220>

<221> unsure

<222> 32, 34, 40, 58, 91, 110, 120, 123, 125, 144, 150

<223> a, t, c, g, or other

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<400> 136

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aantngctgc tatccaggat gacngtgtnn ctgcagtctt tgagtgggta gagcgctgta 180
atgtctatgt taatagctgg gaaatcgag tagcagcaac cagaccactc caatggaaca 240
atccaagttg gggtaagttt gattgagcaa aaaagtcag ctgactgtgt gatgaagagg 300
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gactgatctg gaaaatggga agagctgact gccataaaca ccttgggggg aggtttgttc 420
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aagcgaaagc tagttttcat tgcaagaatc caaacagagt aacagggctt tgtccactgt 600
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<210> 137

<211> 1197

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1630551CB1

<400> 137

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<210> 138

<211> 325

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1630551CD1

<400> 138

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Ser Ala Arg Pro Gly Gln Leu Pro Leu Arg Thr Pro Gln Ala Val
35 40 45
Ala Leu Ser Ser Lys Ser Gly Leu Ser Arg Gly Arg Lys Val Met
50 55 60
Leu Ser Ala Leu Gly Met Leu Ala Ala Gly Gly Ala Gly Leu Ala
65 70 75
Val Ala Leu His Ser Ala Val Ser Ala Ser Asp Leu Glu Leu His
80 85 90
Pro Pro Ser Tyr Pro Trp Ser His Arg Gly Leu Leu Ser Ser Leu
95 100 105
Asp His Thr Ser Ile Arg Arg Gly Phe Gln Val Tyr Lys Gln Val
110 115 120
Cys Ala Ser Cys His Ser Met Asp Phe Val Ala Tyr Arg His Leu
125 130 135
Val Gly Val Cys Tyr Thr Glu Asp Glu Ala Lys Glu Leu Ala Ala
140 145 150
Glu Val Glu Val Gln Asp Gly Pro Asn Glu Asp Gly Glu Met Phe
155 160 165
Met Arg Pro Gly Lys Leu Phe Asp Tyr Phe Pro Lys Pro Tyr Pro
170 175 180
Asn Ser Glu Ala Ala Arg Ala Ala Asn Asn Gly Ala Leu Pro Pro
185 190 195
Asp Leu Ser Tyr Ile Val Arg Ala Arg His Gly Gly Glu Asp Tyr
200 205 210
Val Phe Ser Leu Leu Thr Gly Tyr Cys Glu Pro Pro Thr Gly Val
215 220 225
Ser Leu Arg Glu Gly Leu Tyr Phe Asn Pro Tyr Phe Pro Gly Gln
230 235 240
Ala Ile Ala Met Ala Pro Pro Ile Tyr Thr Asp Val Leu Glu Phe
245 250 255
Asp Asp Gly Thr Pro Ala Thr Met Ser Gln Ile Ala Lys Asp Val
260 265 270
Cys Thr Phe Leu Arg Trp Ala Ser Glu Pro Glu His Asp His Arg
275 280 285
Lys Arg Met Gly Leu Lys Met Leu Met Met Met Ala Leu Leu Val
290 295 300
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305 310 315
Ser Arg Lys Leu Ala Tyr Arg Pro Pro Lys
320 325

<210> 139

<211> 2100

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 360961.19

<400> 139

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ggaaagcact aggcgtaaag tagcttaaatt cctgtaattt cagggatgat ctggtttgac 180
tggacggaaa atcattgtgg acacttatgg cggttggggt gctcatggag gaggtgcctt 240

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tataacgaac gattaaaagt catgtaagtg ggagggtatt tagtagtaat ctacttaact 420
acttgtttta taccaacgta ttatacaagt atatgggtct ttgcaatcac tgattcttac 480
gacatttgaa tccttttagg tctcttatgc tattggagtt tctcatccat tatctatctc 540
cattttccat tatggtacct ctcagaagag tgagagagag ctattagaga ttgtgaagaa 600
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<210> 140

<211> 2115

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 809809CB1

<400> 140

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<210> 141

<211> 592

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 809809CD1

<400> 141

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          20          25          30
Met Ser Asp Glu Glu Ile Lys Lys Thr Thr Leu Ala Ser Ala Val
          35          40          45
Ala Cys Leu Glu Gly Lys Ser Pro Gly Glu Lys Val Ala Ile Ile
          50          55          60
His Gln His Leu Gly Arg Arg Glu Met Thr Asp Val Ile Ile Glu
          65          70          75
Thr Met Lys Ser Asn Pro Asp Glu Leu Lys Thr Thr Val Glu Glu
          80          85          90
Arg Lys Ser Ser Glu Ala Ser Pro Thr Ala Gln Arg Ser Lys Asp
          95          100          105
His Ser Lys Glu Cys Ile Asn Ala Ala Pro Asp Ser Pro Ser Lys
          110          115          120
Gln Leu Pro Asp Gln Ile Ser Phe Phe Ser Gly Asn Pro Ser Val
          125          130          135
Glu Ile Val His Gly Ile Met His Leu Tyr Lys Thr Asn Lys Met
          140          145          150
Thr Ser Leu Lys Glu Asp Val Arg Arg Ser Ala Met Leu Cys Ile
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Leu Thr Val Pro Ala Ala Met Thr Ser His Asp Leu Met Lys Phe

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Gln Ala Asp Ala	Asp Ser Phe Tyr Met	Thr Cys Asn Gly Arg Gln			
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Phe Asn Ser Ile	Glu Asp Asp Val Cys	Gln Leu Val Tyr Val Glu			
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Arg Ala Glu Val	Leu Lys Ser Glu Asp	Gly Ala Ser Leu Pro Val			
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Met Asp Leu Thr	Glu Leu Pro Lys Cys	Thr Val Cys Leu Glu Arg			
	260		265		270
Met Asp Glu Ser	Val Asn Gly Ile Leu	Thr Thr Leu Cys Asn His			
	275		280		285
Ser Phe His Ser	Gln Cys Leu Gln Arg	Trp Asp Asp Thr Thr Cys			
	290		295		300
Pro Val Cys Arg	Tyr Cys Gln Thr Pro	Glu Pro Val Glu Glu Asn			
	305		310		315
Lys Cys Phe Glu	Cys Gly Val Gln Glu	Asn Leu Trp Ile Cys Leu			
	320		325		330
Ile Cys Gly His	Ile Gly Cys Gly Arg	Tyr Val Ser Arg His Ala			
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Tyr Lys His Phe	Glu Glu Thr Gln His	Thr Tyr Ala Met Gln Leu			
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Thr Asn His Arg	Val Trp Asp Tyr Ala	Gly Asp Asn Tyr Val His			
	365		370		375
Arg Leu Val Ala	Ser Lys Thr Asp Gly	Lys Ile Val Gln Tyr Glu			
	380		385		390
Cys Glu Gly Asp	Thr Cys Gln Glu Glu	Lys Ile Asp Ala Leu Gln			
	395		400		405
Leu Glu Tyr Ser	Tyr Leu Leu Thr Ser	Gln Leu Glu Ser Gln Arg			
	410		415		420
Ile Tyr Trp Glu	Asn Lys Ile Val Arg	Ile Glu Lys Asp Thr Ala			
	425		430		435
Glu Glu Ile Asn	Asn Met Lys Thr Lys	Phe Lys Glu Thr Ile Glu			
	440		445		450
Lys Cys Asp Asn	Leu Glu His Lys Leu	Asn Asp Leu Leu Lys Glu			
	455		460		465
Lys Gln Ser Val	Glu Arg Lys Cys Thr	Gln Leu Asn Thr Lys Val			
	470		475		480
Ala Lys Leu Thr	Asn Glu Leu Lys Glu	Glu Gln Glu Met Asn Lys			
	485		490		495
Cys Leu Arg Ala	Asn Gln Val Leu Leu	Gln Asn Lys Leu Lys Glu			
	500		505		510
Glu Glu Arg Val	Leu Lys Glu Thr Cys	Asp Gln Lys Asp Leu Gln			
	515		520		525
Ile Thr Glu Ile	Gln Glu Gln Leu Arg	Asp Val Met Phe Tyr Leu			
	530		535		540
Glu Thr Gln Gln	Lys Ile Asn His Leu	Pro Ala Glu Thr Arg Gln			
	545		550		555
Glu Ile Gln Glu	Gly Gln Ile Asn Ile	Ala Met Ala Ser Ala Ser			
	560		565		570
Ser Pro Ala Ser	Ser Gly Gly Ser Gly	Lys Leu Pro Ser Arg Lys			
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Gly Arg Ser Lys	Arg Gly Lys				

PA-0035 US

590

<210> 142
<211> 2435
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2558815CB1

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<211> 518
<212> PRT

PA-0035 US

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2558815CD1

<400> 143

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				20					25					30
Val	Val	Ser	Gln	Pro	Leu	Asn	Tyr	Arg	Gly	Gly	Ala	Arg	Val	Glu
				35					40					45
Pro	Ala	Asp	Ala	Ser	Gly	Thr	Glu	Lys	Ala	Phe	Glu	Pro	Ala	Thr
				50					55					60
Gly	Arg	Val	Ile	Ala	Thr	Phe	Thr	Cys	Ser	Gly	Glu	Lys	Glu	Val
				65					70					75
Asn	Leu	Ala	Val	Gln	Asn	Ala	Lys	Ala	Ala	Phe	Lys	Ile	Trp	Ser
				80					85					90
Gln	Lys	Ser	Gly	Met	Glu	Arg	Cys	Arg	Ile	Leu	Leu	Glu	Ala	Ala
				95					100					105
Arg	Ile	Ile	Arg	Glu	Arg	Glu	Asp	Glu	Ile	Ala	Thr	Met	Glu	Cys
				110					115					120
Ile	Asn	Asn	Gly	Lys	Ser	Ile	Phe	Glu	Ala	Arg	Leu	Asp	Ile	Asp
				125					130					135
Ile	Ser	Trp	Gln	Cys	Leu	Glu	Tyr	Tyr	Ala	Gly	Leu	Ala	Ala	Ser
				140					145					150
Met	Ala	Gly	Glu	His	Ile	Gln	Leu	Pro	Gly	Gly	Ser	Phe	Gly	Tyr
				155					160					165
Thr	Arg	Arg	Glu	Pro	Leu	Gly	Val	Cys	Val	Gly	Ile	Gly	Ala	Trp
				170					175					180
Asn	Tyr	Pro	Phe	Gln	Ile	Ala	Ser	Trp	Lys	Ser	Ala	Pro	Ala	Leu
				185					190					195
Ala	Cys	Gly	Asn	Ala	Met	Val	Phe	Lys	Pro	Ser	Pro	Phe	Thr	Pro
				200					205					210
Val	Ser	Ala	Leu	Leu	Leu	Ala	Glu	Ile	Tyr	Ser	Glu	Ala	Gly	Val
				215					220					225
Pro	Pro	Gly	Leu	Phe	Asn	Val	Val	Gln	Gly	Gly	Ala	Ala	Thr	Gly
				230					235					240
Gln	Phe	Leu	Cys	Gln	His	Pro	Asp	Val	Ala	Lys	Val	Ser	Phe	Thr
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Gly	Ser	Val	Pro	Thr	Gly	Met	Lys	Ile	Met	Glu	Met	Ser	Ala	Lys
				260					265					270
Gly	Ile	Lys	Pro	Val	Thr	Leu	Glu	Leu	Gly	Gly	Lys	Ser	Pro	Leu
				275					280					285
Ile	Ile	Phe	Ser	Asp	Cys	Asp	Met	Asn	Asn	Ala	Val	Lys	Gly	Ala
				290					295					300
Leu	Met	Ala	Asn	Phe	Leu	Thr	Gln	Gly	Gln	Val	Cys	Cys	Asn	Gly
				305					310					315
Thr	Arg	Val	Phe	Val	Gln	Lys	Glu	Ile	Leu	Asp	Lys	Phe	Thr	Glu
				320					325					330
Glu	Val	Val	Lys	Gln	Thr	Gln	Arg	Ile	Lys	Ile	Gly	Asp	Pro	Leu
				335					340					345
Leu	Glu	Asp	Thr	Arg	Met	Gly	Pro	Leu	Ile	Asn	Arg	Pro	His	Leu
				350					355					360
Glu	Arg	Val	Leu	Gly	Phe	Val	Lys	Val	Ala	Lys	Glu	Gln	Gly	Ala

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Lys Val Leu Cys	Gly Gly Asp Ile Tyr	Val Pro Glu Asp Pro	Lys		
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Leu Lys Asp Gly	Tyr Tyr Met Arg Pro	Cys Val Leu Thr Asn	Cys		
	395		400		405
Arg Asp Asp Met	Thr Cys Val Lys Glu	Glu Ile Phe Gly Pro	Val		
	410		415		420
Met Ser Ile Leu	Ser Phe Asp Thr Glu	Ala Glu Val Leu Glu	Arg		
	425		430		435
Ala Asn Asp Thr	Thr Phe Gly Leu Ala	Ala Gly Val Phe Thr	Arg		
	440		445		450
Asp Ile Gln Arg	Ala His Arg Val Val	Ala Glu Leu Gln Ala	Gly		
	455		460		465
Thr Cys Phe Ile	Asn Asn Tyr Asn Val	Ser Pro Val Glu Leu	Pro		
	470		475		480
Phe Gly Gly Tyr	Lys Lys Ser Gly Phe	Gly Arg Glu Asn Gly	Arg		
	485		490		495
Val Thr Ile Glu	Tyr Tyr Ser Gln Leu	Lys Thr Val Cys Val	Glu		
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Met Gly Asp Val	Glu Ser Ala Phe				
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<210> 144

<211> 2412

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 242010.16

<400> 144

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<210> 145

<211> 2458

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1678695CB1

<400> 145

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<210> 146

<211> 641

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1678695CD1

<400> 146

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 35          40          45
Asp Thr Glu Arg Leu Ile Gly Asp Ala Ala Lys Asn Gln Val Ala
 50          55          60
Leu Asn Pro Gln Asn Thr Val Phe Asp Ala Lys Arg Leu Ile Gly
 65          70          75
Arg Lys Phe Gly Asp Pro Val Val Gln Ser Asp Met Lys His Trp
 80          85          90
Pro Phe Gln Val Ile Asn Asp Gly Asp Lys Pro Lys Val Gln Val
 95          100         105
Ser Tyr Lys Gly Glu Thr Lys Ala Phe Tyr Pro Glu Glu Ile Ser
110          115         120
Ser Met Val Leu Thr Lys Met Lys Glu Ile Ala Glu Ala Tyr Leu
125          130         135
Gly Tyr Pro Val Thr Asn Ala Val Ile Thr Val Pro Ala Tyr Phe
140          145         150
Asn Asp Ser Gln Arg Gln Ala Thr Lys Asp Ala Gly Val Ile Ala
155          160         165
Gly Leu Asn Val Leu Arg Ile Ile Asn Glu Pro Thr Ala Ala Ala
170          175         180
Ile Ala Tyr Gly Leu Asp Arg Thr Gly Lys Gly Glu Arg Asn Val
185          190         195
Leu Ile Phe Asp Leu Gly Gly Gly Thr Phe Asp Val Ser Ile Leu
200          205         210
Thr Ile Asp Asp Gly Ile Phe Glu Val Lys Ala Thr Ala Gly Asp
215          220         225
Thr His Leu Gly Gly Glu Asp Phe Asp Asn Arg Leu Val Asn His
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Asn Lys Arg Ala	245	250	255
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Ser Leu Phe Glu Gly Ile Asp Phe Tyr Thr Ser Ile Thr Arg Ala	290	295	300
Arg Phe Glu Glu Leu Cys Ser Asp Leu Phe Arg Ser Thr Leu Glu	305	310	315
Pro Val Glu Lys Ala Leu Arg Asp Ala Lys Leu Asp Lys Ala Gln	320	325	330
Ile His Asp Leu Val Leu Val Gly Gly Ser Thr Arg Ile Pro Lys	335	340	345
Val Gln Lys Leu Leu Gln Asp Phe Phe Asn Gly Arg Asp Leu Asn	350	355	360
Lys Ser Ile Asn Pro Asp Glu Ala Val Ala Tyr Gly Ala Ala Val	365	370	375
Gln Ala Ala Ile Leu Met Gly Asp Lys Ser Glu Asn Val Gln Asp	380	385	390
Leu Leu Leu Leu Asp Val Ala Pro Leu Ser Leu Gly Leu Glu Thr	395	400	405
Ala Gly Gly Val Met Thr Ala Leu Ile Lys Arg Asn Ser Thr Ile	410	415	420
Pro Thr Lys Gln Thr Gln Ile Phe Thr Thr Tyr Ser Asp Asn Gln	425	430	435
Pro Gly Val Leu Ile Gln Val Tyr Glu Gly Glu Arg Ala Met Thr	440	445	450
Lys Asp Asn Asn Leu Leu Gly Arg Phe Glu Leu Ser Gly Ile Pro	455	460	465
Pro Ala Pro Arg Gly Val Pro Gln Ile Glu Val Thr Phe Asp Ile	470	475	480
Asp Ala Asn Gly Ile Leu Asn Val Thr Ala Thr Asp Lys Ser Thr	485	490	495
Gly Lys Ala Asn Lys Ile Thr Ile Thr Asn Asp Lys Gly Arg Leu	500	505	510
Ser Lys Glu Glu Ile Glu Arg Met Val Gln Glu Ala Glu Lys Tyr	515	520	525
Lys Ala Glu Asp Glu Val Gln Arg Glu Arg Val Ser Ala Lys Asn	530	535	540
Ala Leu Glu Ser Tyr Ala Phe Asn Met Lys Ser Ala Val Glu Asp	545	550	555
Glu Gly Leu Lys Gly Lys Ile Ser Glu Ala Asp Lys Lys Lys Val	560	565	570
Leu Asp Lys Cys Gln Glu Val Ile Ser Trp Leu Asp Ala Asn Thr	575	580	585
Leu Ala Glu Lys Asp Glu Phe Glu His Lys Arg Lys Glu Leu Glu	590	595	600
Gln Val Cys Asn Pro Ile Ile Ser Gly Leu Tyr Gln Gly Ala Gly	605	610	615
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<210> 147

<211> 4035

<212> DNA

PA-0035 US

<213> Homo sapiens

<220>

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<221> unsure

<222> 2626, 3304-3502

<223> a, t, c, g, or other

<400> 147

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<210> 148

<211> 3229

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1250434CB1

<400> 148

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<210> 149

<211> 827

<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: 1250434CD1

<400> 149

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          35          40          45
Pro Leu Pro His Asn Val Ser Ser His Leu Asp Lys Ala Ser Val
          50          55          60
Met Arg Leu Thr Ile Ser Tyr Leu Arg Val Arg Lys Leu Leu Asp
          65          70          75
Ala Gly Asp Leu Asp Ile Glu Asp Asp Met Lys Ala Gln Met Asn
          80          85          90

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Met	Gly	Leu	Thr	Gln	Phe	Glu	Leu	Thr	Gly	His	Ser	Val	Phe	Asp	125	130	135
Phe	Thr	His	Pro	Cys	Asp	His	Glu	Glu	Met	Arg	Glu	Met	Leu	Thr	140	145	150
His	Arg	Asn	Gly	Leu	Val	Lys	Lys	Gly	Lys	Glu	Gln	Asn	Thr	Gln	155	160	165
Arg	Ser	Phe	Phe	Leu	Arg	Met	Lys	Cys	Thr	Leu	Thr	Ser	Arg	Gly	170	175	180
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Met	Ser	Pro	Leu	Pro	Thr	Ala	Glu	Thr	Pro	Lys	Pro	Leu	Arg	Ser	455	460	465
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Pro	Asn	Pro	Glu	Ser	Leu	Glu	Leu	Ser	Phe	Thr	Met	Pro	Gln	Ile	485	490	495
Gln	Asp	Gln	Thr	Pro	Ser	Pro	Ser	Asp	Gly	Ser	Thr	Arg	Gln	Ser	500	505	510

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Ser	Pro	Glu	Pro	Asn	Ser	Pro	Ser	Glu	Tyr	Cys	Phe	Tyr	Val	Asp
				515					520					525
Ser	Asp	Met	Val	Asn	Glu	Phe	Lys	Leu	Glu	Leu	Val	Glu	Lys	Leu
				530					535					540
Phe	Ala	Glu	Asp	Thr	Glu	Ala	Lys	Asn	Pro	Phe	Ser	Thr	Gln	Asp
				545					550					555
Thr	Asp	Leu	Asp	Leu	Glu	Met	Leu	Ala	Pro	Tyr	Ile	Pro	Met	Asp
				560					565					570
Asp	Asp	Phe	Gln	Leu	Arg	Ser	Phe	Asp	Gln	Leu	Ser	Pro	Leu	Glu
				575					580					585
Ser	Ser	Ser	Ala	Ser	Pro	Glu	Ser	Ala	Ser	Pro	Gln	Ser	Thr	Val
				590					595					600
Thr	Val	Phe	Gln	Gln	Thr	Gln	Ile	Gln	Glu	Pro	Thr	Ala	Asn	Ala
				605					610					615
Thr	Thr	Thr	Thr	Ala	Thr	Thr	Asp	Glu	Leu	Lys	Thr	Val	Thr	Lys
				620					625					630
Asp	Arg	Met	Glu	Asp	Ile	Lys	Ile	Leu	Ile	Ala	Ser	Pro	Ser	Pro
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Thr	His	Ile	His	Lys	Glu	Thr	Thr	Ser	Ala	Thr	Ser	Ser	Pro	Tyr
				650					655					660
Arg	Asp	Thr	Gln	Ser	Arg	Thr	Ala	Ser	Pro	Asn	Arg	Ala	Gly	Lys
				665					670					675
Gly	Val	Ile	Glu	Gln	Thr	Glu	Lys	Ser	His	Pro	Arg	Ser	Pro	Asn
				680					685					690
Val	Leu	Ser	Val	Ala	Leu	Ser	Gln	Arg	Thr	Thr	Val	Pro	Glu	Glu
				695					700					705
Glu	Leu	Asn	Pro	Lys	Ile	Leu	Ala	Leu	Gln	Asn	Ala	Gln	Arg	Lys
				710					715					720
Arg	Lys	Met	Glu	His	Asp	Gly	Ser	Leu	Phe	Gln	Ala	Val	Gly	Ile
				725					730					735
Gly	Thr	Leu	Leu	Gln	Gln	Pro	Asp	Asp	His	Ala	Ala	Thr	Thr	Ser
				740					745					750
Leu	Ser	Trp	Lys	Arg	Val	Lys	Gly	Cys	Lys	Ser	Ser	Glu	Gln	Asn
				755					760					765
Gly	Met	Glu	Gln	Lys	Thr	Ile	Ile	Leu	Ile	Pro	Ser	Asp	Leu	Ala
				770					775					780
Cys	Arg	Leu	Leu	Gly	Gln	Ser	Met	Asp	Glu	Ser	Gly	Leu	Pro	Gln
				785					790					795
Leu	Thr	Ser	Tyr	Asp	Cys	Glu	Val	Asn	Ala	Pro	Ile	Gln	Gly	Ser
				800					805					810
Arg	Asn	Leu	Leu	Gln	Gly	Glu	Glu	Leu	Leu	Arg	Ala	Leu	Asp	Gln
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Val Asn

<210> 150

<211> 1790

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 236196.3

<220>

<221> unsure

<222> 159-272

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<223> a, t, c, g, or other

<400> 150

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tttaaagtct tagcaggaag cataaggaaa agccatcggc ctccaatacc catgatgaca 360
gagggagcac ttgagccttg ccttccctcc tcttaaataca ggggtgtgttc cgagattaca 420
gaacatcaca ccttggcgtg atgaaatcat gccaaagattc tgactctccc tttccggtga 480
tactgctcat gatttctcct aatacgcttc aagcaactgt taccacaaaa aatacagttt 540
ccgcagggct ttaaaggatt gagtttagca tgtatatcat gcgttattaa agttcacgtg 600
attcatgtga aattaactgt cctttttgtc agtgccaaaa cagtgccttc tctgcacact 660
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tttaaattta aatgttttaa gtgatcatca gtgttccttt ttacttataa agttggattc 1740
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<210> 151

<211> 584

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 442308.1

<400> 151

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accggtacac gcgctggctg gccagcaccg agggccttca gtactccctg caccgtcttg 180
ctgccggggc gccccctcag gactcaagct ccaagtcccc ggagccctcg gccgacgagt 240
caccggacaa tgacaaggag accccgggag gcggggggga cgccggcaag aagcgaaagc 300
ggcgagtgtc tttctccaag gcgcagacct acgagctgga gcggcgcttt cggcagcagc 360
ggtagctgtc ggcccccag cgcgaaacac tggccagcct catccgcctc acgcccacgc 420
aggtcaagat ctggttccag aaccaccgct acaagatgaa gcgcgcccgg gccgagaaag 480
gtatggaggt gacgccccct cctcgcgcgc gccgggtggc cgtgcccgtc ttggtcaggg 540
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<210> 152

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<211> 597
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 060957.1

<220>
<221> unsure
<222> 77, 97, 371
<223> a, t, c, g, or other

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attgggacgc acggagccgc cgcggcgccg aactcgctct tgagggtcaag tgacggacgg 180
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tatcagggcc tctgttgaaa gattcgggtt attacaacac gccaatctga aggccagggg 300
tcagagagtg agaggcgagc gaaatttcaa ctcaaattaa cattctgtca gctccagaaa 360
atgggataaaa naaagtcgaa ttaattcatt ataataaaga gagatgggcg aggggagctcg 420
gccggcgccg gccctctctc tgccctcccc cggggccgaa tagattacag ctctgtattc 480
agaaacaccg ccgcgcgcat tcctcctcgc gaaccaaca gaagaccagg cgcttgtggc 540
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<210> 153
<211> 1899
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 014284CB1

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cgccgccctc ctgctgcttc tctccggcga cggcgccgtg cgctgcgaca cacctgccaa 180
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gcgcgatgtc aactgctcgg ttatgggacc acaagaaaaa aaagtagtgg tgtaccttca 300
gaagctggat acagcatatg atgaccttgg caattctggc catctcacca tcatttacia 360
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gtatgtcaac acagcacacc ttaagaattc tcaggaaaag tattctaata ggctctacaa 600
gtatgatcac aactttgtga aagctatcaa tgccattcag aagtcttga ctgcaactac 660
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gtcttgtagc cagtatgtct aaggctgtga aggcggcttc ccataacctt ttgcaggaaa 1020
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tccatgcaaa atgaaggaag actgctttcg ttattactcc tctgagtacc actatgtagg 1140
aggtttctat ggaggctgca atgaagccct gatgaagctt gagttgggtc atcatgggcc 1200
catggcagtt gcttttgaag tatatgatga cttcctccac tacaaaaagg ggatctacca 1260

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<210> 154
<211> 463
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 014284CD1

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Thr Tyr Leu Asp Leu Leu Gly Thr Trp Val Phe Gln Val Gly Ser
35 40 45
Ser Gly Ser Gln Arg Asp Val Asn Cys Ser Val Met Gly Pro Gln
50 55 60
Glu Lys Lys Val Val Val Tyr Leu Gln Lys Leu Asp Thr Ala Tyr
65 70 75
Asp Asp Leu Gly Asn Ser Gly His Phe Thr Ile Ile Tyr Asn Gln
80 85 90
Gly Phe Glu Ile Val Leu Asn Asp Tyr Lys Trp Phe Ala Phe Phe
95 100 105
Lys Tyr Lys Glu Glu Gly Ser Lys Val Thr Thr Tyr Cys Asn Glu
110 115 120
Thr Met Thr Gly Trp Val His Asp Val Leu Gly Arg Asn Trp Ala
125 130 135
Cys Phe Thr Gly Lys Lys Val Gly Thr Ala Ser Glu Asn Val Tyr
140 145 150
Val Asn Thr Ala His Leu Lys Asn Ser Gln Glu Lys Tyr Ser Asn
155 160 165
Arg Leu Tyr Lys Tyr Asp His Asn Phe Val Lys Ala Ile Asn Ala
170 175 180
Ile Gln Lys Ser Trp Thr Ala Thr Thr Tyr Met Glu Tyr Glu Thr
185 190 195
Leu Thr Leu Gly Asp Met Ile Arg Arg Ser Gly Gly His Ser Arg
200 205 210
Lys Ile Pro Arg Pro Lys Pro Ala Pro Leu Thr Ala Glu Ile Gln
215 220 225
Gln Lys Ile Leu His Leu Pro Thr Ser Trp Asp Trp Arg Asn Val
230 235 240
His Gly Ile Asn Phe Val Ser Pro Val Arg Asn Gln Ala Ser Cys
245 250 255

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Gly Ser Cys Tyr Ser Phe Ala Ser Met Gly Met Leu Glu Ala Arg
260 265 270
Ile Arg Ile Leu Thr Asn Asn Ser Gln Thr Pro Ile Leu Ser Pro
275 280 285
Gln Glu Val Val Ser Cys Ser Gln Tyr Ala Gln Gly Cys Glu Gly
290 295 300
Gly Phe Pro Tyr Leu Ile Ala Gly Lys Tyr Ala Gln Asp Phe Gly
305 310 315
Leu Val Glu Glu Ala Cys Phe Pro Tyr Thr Gly Thr Asp Ser Pro
320 325 330
Cys Lys Met Lys Glu Asp Cys Phe Arg Tyr Tyr Ser Ser Glu Tyr
335 340 345
His Tyr Val Gly Gly Phe Tyr Gly Gly Cys Asn Glu Ala Leu Met
350 355 360
Lys Leu Glu Leu Val His His Gly Pro Met Ala Val Ala Phe Glu
365 370 375
Val Tyr Asp Asp Phe Leu His Tyr Lys Lys Gly Ile Tyr His His
380 385 390
Thr Gly Leu Arg Asp Pro Phe Asn Pro Phe Glu Leu Thr Asn His
395 400 405
Ala Val Leu Leu Val Gly Tyr Gly Thr Asp Ser Ala Ser Gly Met
410 415 420
Asp Tyr Trp Ile Val Lys Asn Ser Trp Gly Thr Gly Trp Gly Glu
425 430 435
Asn Gly Tyr Phe Arg Ile Arg Arg Gly Thr Asp Glu Cys Ala Ile
440 445 450
Glu Ser Ile Ala Val Ala Ala Thr Pro Ile Pro Lys Leu
455 460

<210> 155

<211> 898

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1095192.1

<400> 155

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tgtttgcatt tcaactgccac cattttgtcac atttttatgg aatctgtagg tggattcatc 300
tttttggttaa tccatgtggt tattatatgt gactattttt gtaaacgaag tttctgttga 360
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ttctgctttt tcttgcactt gggttagcca tcttcggctc tcagcaagggt tgacactgta 840
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<210> 156

<211> 717

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<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 233003.20

<220>

<221> unsure

<222> 564, 622, 669, 677, 700

<223> a, t, c, g, or other

<400> 156

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tgtaccaaaag gttacctgct ggagctgagc cctatgagtt tgtctctctg gaatggctgc 180
aaaagtggtt ggatgaatca acacctacca aacctattga taatcacgct tgcctgtgtt 240
cccatgacaa gcttcacccg gataaaatat caattatgaa gaggatatct gaatatgcag 300
ctgacatttt ctatagtaga tatggaggag gtccaagact aactgtgaaa gccctgtgta 360
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ataaaactgt taataatctg ctgaaagcag cagtaaaggg cgatggattt tgggtgggga 480
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aagaaagaaa agaagaggag gnattaaatt ttaatgaaga tattctgtgt ccacatgggtg 660
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<210> 157

<211> 2510

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1911808CB1

<400> 157

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tatcacatat atgtgaaaag tactgacaaa aataatttat gaaataaaca cagtagggca 240
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gtcctgatca aagctctgct gtgctattcg gcaagactct atgtggatgc ctcttgtaga 360
atgtgggttaa taataccagc cgatctcata gggcactgtg cagactcagc attatgggtg 420
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<210> 158

<211> 254

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1911808CD1

<400> 158

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Val Val Asp His Val Ile Lys Ile Thr Arg Ile Glu Val Gly Asp
                      35          40          45
Val Asn Pro Ser Glu Thr Gln Tyr Ile Ser Glu Pro Lys Leu Cys
                      50          55          60
Pro Glu Cys Arg Glu Gly Leu Leu Cys Gln Gln Gln Arg Asp Leu
                      65          70          75
Arg Glu Tyr Thr Gln Ala Thr Ile Tyr Val His Lys Val Val Asp
                      80          85          90
Asn Lys Lys Val Met Lys Asp Ser Ala Pro Glu Leu Asn Val Ser
                      95          100         105
Ser Ser Glu Thr Glu Glu Asp Lys Glu Glu Ala Lys Pro Asp Gly
                      110         115         120
Glu Lys Asp Pro Asp Phe Asn Gln Ser Asn Gly Gly Thr Lys Arg
                      125         130         135
Gln Lys Ile Ser His Gln Asn Tyr Ile Ala Tyr Gln Lys Gln Val
                      140         145         150
Ile Arg Arg Ser Met Arg His Arg Lys Val Arg Gly Glu Lys Ala
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Leu Leu Val Ser Ala Asn Gln Thr Leu Lys Glu Leu Lys Ile Gln

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Ile Met His Ala	Phe Ser Val Ala Pro	Phe Asp Gln Asn Leu Ser			
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Leu Gly Val Ile	Pro Glu Ser Val Ile	Leu Leu Lys Ala Asp Glu			
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<211> 1056

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 405844.21

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PA-0035 US

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<211> 1557

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 405844.22

<400> 161

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<210> 162

<211> 2256

<212> DNA

PA-0035 US

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2705515CB1

<400> 162

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<211> 471

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2705515CD1

<400> 163

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165

PA-0035 US

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Leu Ser Phe Asp Phe Gln
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<211> 3290
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<213> Homo sapiens

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PA-0035 US

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<223> a, t, c, g, or other

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PA-0035 US

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<213> Homo sapiens

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PA-0035 US

<211> 580
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<222> 37, 62, 66, 351
<223> a, t, c, g, or other

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<213> Homo sapiens

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PA-0035 US

<221> misc_feature

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PA-0035 US

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<210> 175

<211> 1799

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 196623.3

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<210> 176

<211> 4244

<212> DNA

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<223> Incyte ID No: 048488.32

<400> 176

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<210> 177

<211> 1469

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2767012CB1

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<210> 178

<211> 397

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2767012CD1

<400> 178

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35 40 45
Lys Gln Ile Ser Gln Ala Tyr Glu Val Leu Ser Asp Ala Lys Lys
50 55 60
Arg Glu Leu Tyr Asp Lys Gly Gly Glu Gln Ala Ile Lys Glu Gly
65 70 75
Gly Ala Gly Gly Gly Phe Gly Ser Pro Met Asp Ile Phe Asp Met
80 85 90
Phe Phe Gly Gly Gly Gly Arg Met Gln Arg Glu Arg Arg Gly Lys
95 100 105
Asn Val Val His Gln Leu Ser Val Thr Leu Glu Asp Leu Tyr Asn
110 115 120
Gly Ala Thr Arg Lys Leu Ala Leu Gln Lys Asn Val Ile Cys Asp
125 130 135
Lys Cys Glu Gly Arg Gly Gly Lys Lys Gly Ala Val Glu Cys Cys
140 145 150
Pro Asn Cys Arg Gly Thr Gly Met Gln Ile Arg Ile His Gln Ile
155 160 165
Gly Pro Gly Met Val Gln Gln Ile Gln Ser Val Cys Met Glu Cys
170 175 180
Gln Gly His Gly Glu Arg Ile Ser Pro Lys Asp Arg Cys Lys Ser
185 190 195

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Cys Asn Gly Arg Lys Ile Val Arg Glu Lys Lys Ile Leu Glu Val
200 205 210
His Ile Asp Lys Gly Met Lys Asp Gly Gln Lys Ile Thr Phe His
215 220 225
Gly Glu Gly Asp Gln Glu Pro Gly Leu Glu Pro Gly Asp Ile Ile
230 235 240
Ile Val Leu Asp Gln Lys Asp His Ala Val Phe Thr Arg Arg Gly
245 250 255
Glu Asp Leu Phe Met Cys Met Asp Ile Gln Leu Val Glu Ala Leu
260 265 270
Cys Gly Phe Gln Lys Pro Ile Ser Thr Leu Asp Asn Arg Thr Ile
275 280 285
Val Ile Thr Ser His Pro Gly Gln Ile Val Lys His Gly Asp Ile
290 295 300
Lys Cys Val Leu Asn Glu Gly Met Pro Ile Tyr Arg Arg Pro Tyr
305 310 315
Glu Lys Gly Arg Leu Ile Ile Glu Phe Lys Val Asn Phe Pro Glu
320 325 330
Asn Gly Phe Leu Ser Pro Asp Lys Leu Ser Leu Leu Glu Lys Leu
335 340 345
Leu Pro Glu Arg Lys Glu Val Glu Glu Thr Asp Glu Met Asp Gln
350 355 360
Val Glu Leu Val Asp Phe Asp Pro Asn Gln Glu Arg Arg Arg His
365 370 375
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Gly Val Gln Cys Gln Thr Ser
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<210> 179

<211> 2019

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1651724CB1

<400> 179

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<210> 180

<211> 461

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1651724CD1

<400> 180

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          20          25          30
Val Ser Ser Ser Asp Asp Lys Asp Ala Phe Tyr Val Ala Asp Leu
          35          40          45
Gly Asp Ile Leu Lys Lys His Leu Arg Trp Leu Lys Ala Leu Pro
          50          55          60
Arg Val Thr Pro Phe Tyr Ala Val Lys Cys Asn Asp Ser Lys Ala
          65          70          75
Ile Val Lys Thr Leu Ala Ala Thr Gly Thr Gly Phe Asp Cys Ala
          80          85          90
Ser Lys Thr Glu Ile Gln Leu Val Gln Ser Leu Gly Val Pro Pro
          95          100          105
Glu Arg Ile Ile Tyr Ala Asn Pro Cys Lys Gln Val Ser Gln Ile
          110          115          120
Lys Tyr Ala Ala Asn Asn Gly Val Gln Met Met Thr Phe Asp Ser
          125          130          135
Glu Val Glu Leu Met Lys Val Ala Arg Ala His Pro Lys Ala Lys
          140          145          150
Leu Val Leu Arg Ile Ala Thr Asp Asp Ser Lys Ala Val Cys Arg
          155          160          165
Leu Ser Val Lys Phe Gly Ala Thr Leu Arg Thr Ser Arg Leu Leu
          170          175          180
Leu Glu Arg Ala Lys Glu Leu Asn Ile Asp Val Val Gly Val Ser
          185          190          195
Phe His Val Gly Ser Gly Cys Thr Asp Pro Glu Thr Phe Val Gln
          200          205          210
Ala Ile Ser Asp Ala Arg Cys Val Phe Asp Met Gly Ala Glu Val

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Ser Glu Asp Val	Lys Leu Lys Phe Glu	Glu Ile Thr Gly Val	Ile		
	245		250		255
Asn Pro Ala Leu	Asp Lys Tyr Phe Pro	Ser Asp Ser Gly Val	Arg		
	260		265		270
Ile Ile Ala Glu	Pro Gly Arg Tyr Tyr	Val Ala Ser Ala Phe	Thr		
	275		280		285
Leu Ala Val Asn	Ile Ile Ala Lys Lys	Ile Val Leu Lys Glu	Gln		
	290		295		300
Thr Gly Ser Asp	Asp Glu Asp Glu Ser	Ser Glu Gln Thr Phe	Met		
	305		310		315
Tyr Tyr Val Asn	Asp Gly Val Tyr Gly	Ser Phe Asn Cys Ile	Leu		
	320		325		330
Tyr Asp His Ala	His Val Lys Pro Leu	Leu Gln Lys Arg Pro	Lys		
	335		340		345
Pro Asp Glu Lys	Tyr Tyr Ser Ser Ser	Ile Trp Gly Pro Thr	Cys		
	350		355		360
Asp Gly Leu Asp	Arg Ile Val Glu Arg	Cys Asp Leu Pro Glu	Met		
	365		370		375
His Val Gly Asp	Trp Met Leu Phe Glu	Asn Met Gly Ala Tyr	Thr		
	380		385		390
Val Ala Ala Ala	Ser Thr Phe Asn Gly	Phe Gln Arg Pro Thr	Ile		
	395		400		405
Tyr Tyr Val Met	Ser Gly Pro Ala Trp	Gln Leu Met Gln Gln	Phe		
	410		415		420
Gln Asn Pro Asp	Phe Pro Pro Glu Val	Glu Glu Gln Asp Ala	Ser		
	425		430		435
Thr Leu Pro Val	Ser Cys Ala Trp Glu	Ser Gly Met Lys Arg	His		
	440		445		450
Arg Ala Ala Cys	Ala Ser Ala Ser Ile	Asn Val			
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<210> 181

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 206397.1

<400> 181

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aatagtcctt	caagtctaca	gccataccac	cctgaacgcg	cccaatctcg	tctaaaatag	180
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<210> 182

<211> 715

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

PA-0035 US

<223> Incyte ID No: 461707.40

<400> 182

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gaaggccgcc ctgacatgaa gactgagctc ttttccagct catgcccagg tggaatcatg 420
ctgaatgaga caggccaggg ttaccagcgc tttctcctct acaatcgctc accacatcct 480
cccgaaaagt gtgtggagga attcaagtcc ctgacttcct gcctggactc caaagccttc 540
ttattgactc ctaggaatca agaggcctgt gagctgtcca ataactgacc tgtaacttca 600
tctaagtccc cagatgggta caatgggagc tgagttgttg gagggagaag ctggagactt 660
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<210> 183

<211> 962

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2706645CB1

<400> 183

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caccagtccct gccgccagg acccgagca gagacgacgc ctgcagcaag gagaccagga 240
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aaggagctca tcaacaatga gctttcccat ttcttagagg aaatcaaaga gcaggaggtt 420
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ttaacagtaa cttaggagtc aggtctcagt gataaagcgt gcaccgtgca gcccgccatg 840
gccgtgtaga ccctaaccg gaggaaccc tgactacaga aattaccccg gggcaccctt 900
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aa 962
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<210> 184

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2706645CD1

<400> 184

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PA-0035 US

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				20					25					30
Ser	Glu	Leu	Lys	Glu	Leu	Ile	Asn	Asn	Glu	Leu	Ser	His	Phe	Leu
				35					40					45
Glu	Glu	Ile	Lys	Glu	Gln	Glu	Val	Val	Asp	Lys	Val	Met	Glu	Thr
				50					55					60
Leu	Asp	Asn	Asp	Gly	Asp	Gly	Glu	Cys	Asp	Phe	Gln	Glu	Phe	Met
				65					70					75
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His Glu

<210> 185

<211> 2578

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 474372.7

<220>

<221> unsure

<222> 2154

<223> a, t, c, g, or other

<400> 185

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<210> 186

<211> 2196

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 3592543CB1

<400> 186

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PA-0035 US

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tccgagctgg cgtccacggc caacatgctc agggaaacagg tggcacagct taaacagaaa 1920
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tgaagagaga ccgtcggggg ctgaggggca acgaagaaaa aaaataacac agagagacag 2040
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<210> 187

<211> 331

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3592543CD1

<400> 187

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  35          40          45
Val Gly Ser Leu Lys Pro His Leu Arg Ala Lys Asn Ser Asp Leu
  50          55          60
Leu Thr Ser Pro Asp Val Gly Leu Leu Lys Leu Ala Ser Pro Glu
  65          70          75
Leu Glu Arg Leu Ile Ile Gln Ser Ser Asn Gly His Ile Thr Thr
  80          85          90
Thr Pro Thr Pro Thr Gln Phe Leu Cys Pro Lys Asn Val Thr Asp
  95          100         105
Glu Gln Glu Gly Phe Ala Glu Gly Phe Val Arg Ala Leu Ala Glu
  110         115         120
Leu His Ser Gln Asn Thr Leu Pro Ser Val Thr Pro Ala Ala Gln
  125         130         135
Arg Cys Asn Gly Ala Gly Met Val Ala Pro Ala Val Ala Ser Val
  140         145         150
Ala Gly Gly Ser Gly Ser Val Gly Phe Ser Ala Ser Leu His Ser
  155         160         165
Glu Pro Pro Val Tyr Ala Asn Leu Ser Asn Phe Asn Pro Gly Ala
  170         175         180
Leu Ser Ser Gly Gly Gly Ala Pro Ser Tyr Gly Ala Ala Gly Leu
  185         190         195
Ala Phe Pro Ala Gln Pro Gln Gln Gln Gln Gln Pro Pro His His
  200         205         210
Leu Pro Gln Gln Met Pro Val Gln His Pro Arg Leu Gln Ala Leu
  215         220         225
Lys Glu Glu Pro Gln Thr Val Pro Glu Met Pro Gly Glu Thr Pro
  230         235         240
Pro Leu Ser Pro Ile Asp Met Glu Ser Gln Glu Arg Ile Lys Ala
  245         250         255
Glu Arg Lys Arg Met Arg Asn Arg Ile Ala Ala Ser Lys Cys Arg
  260         265         270
Lys Arg Lys Leu Glu Arg Ile Ala Arg Leu Glu Glu Lys Val Lys
  275         280         285
Thr Leu Lys Ala Gln Asn Ser Glu Leu Ala Ser Thr Ala Asn Met
```

PA-0035 US

```

                290                295                300
Leu Arg Glu Gln Val Ala Gln Leu Lys Gln Lys Val Met Asn His
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Val Asn Ser Gly Cys Gln Leu Met Leu Thr Gln Gln Leu Gln Thr
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Phe
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<210> 188
<211> 1427
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 048612.12c

<220>
<221> unsure
<222> 217-266
<223> a, t, c, g, or other

<400> 188
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atacacatac acaaataacac cacacagaca catgtgnnnn nnnnnnnnnn nnnnnnnnnn 240
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<210> 189
<211> 2666
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 048612.13

PA-0035 US

<220>

<221> unsure

<222> 2365, 2367-2399

<223> a, t, c, g, or other

<400> 189

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<210> 190

<211> 2358

<212> DNA

<213> Homo sapiens

PA-0035 US

<220>

<221> misc_feature

<223> Incyte ID No: 245259.16

<400> 190

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<210> 191

<211> 1273

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 522433CB1

<400> 191

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gcgagccgcg caagtttccc gggaccctca gagttgcaca ccgaagactc cagattccga 180
gagttgcgga aacgctacga ggacctgcta accaggtctg gggccaacca gagctgggaa 240
gattcgaaca ccgacctcgt cccggccctt gcagtccgga tactcacgcc agaagtgcgg 300
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<210> 192

<211> 308

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 522433CD1

<400> 192

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20         25         30
Ser Leu Ala Glu Ala Ser Arg Ala Ser Phe Pro Gly Pro Ser Glu
35         40         45
Leu His Thr Glu Asp Ser Arg Phe Arg Glu Leu Arg Lys Arg Tyr
50         55         60
Glu Asp Leu Leu Thr Arg Leu Arg Ala Asn Gln Ser Trp Glu Asp
65         70         75
Ser Asn Thr Asp Leu Val Pro Ala Pro Ala Val Arg Ile Leu Thr
80         85         90
Pro Glu Val Arg Leu Gly Ser Gly Gly His Leu His Leu Arg Ile
95        100        105
Ser Arg Ala Ala Leu Pro Glu Gly Leu Pro Glu Ala Ser Arg Leu
110       115       120
His Arg Ala Leu Phe Arg Leu Ser Pro Thr Ala Ser Arg Ser Trp
125       130       135
Asp Val Thr Arg Pro Leu Arg Arg Gln Leu Ser Leu Ala Arg Pro
140       145       150
Gln Ala Pro Ala Leu His Leu Arg Leu Ser Pro Pro Pro Ser Gln
155       160       165
Ser Asp Gln Leu Leu Ala Glu Ser Ser Ser Ala Arg Pro Gln Leu

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	170		175		180
Glu Leu His Leu	Arg Pro Gln Ala Ala	Arg Gly Arg Arg Arg	Ala		
	185		190		195
Arg Ala Arg Asn	Gly Asp His Cys Pro	Leu Gly Pro Gly Arg	Cys		
	200		205		210
Cys Arg Leu His	Thr Val Arg Ala Ser	Leu Glu Asp Leu Gly	Trp		
	215		220		225
Ala Asp Trp Val	Leu Ser Pro Arg Glu	Val Gln Val Thr Met	Cys		
	230		235		240
Ile Gly Ala Cys	Pro Ser Gln Phe Arg	Ala Ala Asn Met His	Ala		
	245		250		255
Gln Ile Lys Thr	Ser Leu His Arg Leu	Lys Pro Asp Thr Val	Pro		
	260		265		270
Ala Pro Cys Cys	Val Pro Ala Ser Tyr	Asn Pro Met Val Leu	Ile		
	275		280		285
Gln Lys Thr Asp	Thr Gly Val Ser Leu	Gln Thr Tyr Asp Asp	Leu		
	290		295		300
Leu Ala Lys Asp	Cys His Cys Ile				
	305				

<210> 193

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1040667.43

<220>

<221> unsure

<222> 48

<223> a, t, c, g, or other

<400> 193

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cttgtagcca atttctggga ttctggaagg	cctcgagccg ctcgagccga attcggctcg	180
agttctcaca taacagtaga aaaccaaatt	ttgttgcat ctcttcaaag aatcgagaat	240
tgcgtacaaa aaaaacctta cataattaag	aatgaataca ttacaggcg taaatgcaaa	300
ccgattccaa ctcaaagcaa gtaacagccc	acggtgttct ggccaaagtc atcagctaag	360
aaaggaaact gg		372

<210> 194

<211> 558

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2048551CB1

<400> 194

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aatgtacctc ctgcaagaag tgctgtgtct	cttgctgccc cgtgggctgt gccaaagtgtg	180
cccagggtgt tgtctgcaaa ggctcatcag	agaagtgcgc ctgctgtgcc tgatgttggg	240

PA-0035 US

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taccctgacc ggtttgctac attctttttt ctattcaata tgtgaaagac aataaaacac 360
gtttgacttg aaaaaaggca taacattacc tggaagggat ttcccaaaaa tatgaaaacc 420
tcgggggcgg acccccctag tctattcagc ccaccggata ttactccgc cgatgaaaac 480
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aatgcttggc atccagcc 558
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<210> 195

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2048551CD1

<400> 195

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Ala Gly Ser Cys Lys Cys Lys Glu Cys Lys Cys Thr Ser Cys Lys
          20          25          30
Lys Cys Cys Cys Ser Cys Cys Pro Val Gly Cys Ala Lys Cys Ala
          35          40          45
Gln Gly Cys Val Cys Lys Gly Ser Ser Glu Lys Cys Arg Cys Cys
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Ala
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<210> 196

<211> 3033

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1969731CB1

<400> 196

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gcaggacat gtctcgggag atgcaggatg tagacctcgc tgaggtgaag cctttggtgg 180
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<210> 197

<211> 394

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1969731CD1

<400> 197

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20          25          30
Asp Val Gln Glu Gln Asp Ile Glu Thr Leu His Gly Ser Val His
35          40          45
Val Thr Leu Cys Gly Thr Pro Lys Gly Asn Arg Pro Val Ile Leu
50          55          60
Thr Tyr His Asp Ile Gly Met Asn His Lys Thr Cys Tyr Asn Pro
65          70          75
Leu Phe Asn Tyr Glu Asp Met Gln Glu Ile Thr Gln His Phe Ala
80          85          90
Val Cys His Val Asp Ala Pro Gly Gln Gln Asp Gly Ala Ala Ser

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PA-0035 US

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	110		115		120
Met Leu Pro Gly Val Leu Gln Gln Phe Gly Leu Lys Ser Ile Ile					
	125		130		135
Gly Met Gly Thr Gly Ala Gly Ala Tyr Ile Leu Thr Arg Phe Ala					
	140		145		150
Leu Asn Asn Pro Glu Met Val Glu Gly Leu Val Leu Ile Asn Val					
	155		160		165
Asn Pro Cys Ala Glu Gly Trp Met Asp Trp Ala Ala Ser Lys Ile					
	170		175		180
Ser Gly Trp Thr Gln Ala Leu Pro Asp Met Val Val Ser His Leu					
	185		190		195
Phe Gly Lys Glu Glu Met Gln Ser Asn Val Glu Val Val His Thr					
	200		205		210
Tyr Arg Gln His Ile Val Asn Asp Met Asn Pro Gly Asn Leu His					
	215		220		225
Leu Phe Ile Asn Ala Tyr Asn Ser Arg Arg Asp Leu Glu Ile Glu					
	230		235		240
Arg Pro Met Pro Gly Thr His Thr Val Thr Leu Gln Cys Pro Ala					
	245		250		255
Leu Leu Val Val Gly Asp Ser Ser Pro Ala Val Asp Ala Val Val					
	260		265		270
Glu Cys Asn Ser Lys Leu Asp Pro Thr Lys Thr Thr Leu Leu Lys					
	275		280		285
Met Ala Asp Cys Gly Gly Leu Pro Gln Ile Ser Gln Pro Ala Lys					
	290		295		300
Leu Ala Glu Ala Phe Lys Tyr Phe Val Gln Gly Met Gly Tyr Met					
	305		310		315
Pro Ser Ala Ser Met Thr Arg Leu Met Arg Ser Arg Thr Ala Ser					
	320		325		330
Gly Ser Ser Val Thr Ser Leu Asp Gly Thr Arg Ser Arg Ser His					
	335		340		345
Thr Ser Glu Gly Thr Arg Ser Arg Ser His Thr Ser Glu Gly Thr					
	350		355		360
Arg Ser Arg Ser His Thr Ser Glu Gly Ala His Leu Asp Ile Thr					
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<210> 198

<211> 4848

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1326983.14

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<222> 4793, 4798, 4806, 4809-4810, 4815-4816, 4824-4825, 4828, 4830, 4832-4833, 4842-4843

<223> a, t, c, g, or other

<400> 198

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<223> Incyte ID No: 2120743CB1

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<211> 697

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2120743CD1

PA-0035 US

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Val	Ala	Ile	Cys	Leu	Gly	Leu	Tyr	Val	Arg	Trp	Glu	Lys	Thr	Ala
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Asn	Ser	Leu	Ile	Leu	Val	Ile	Phe	Ile	Leu	Gly	Leu	Phe	Val	Leu
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Pro	Thr	Leu	Leu	Thr	Thr	Val	Glu	Phe	Leu	Glu	Leu	Val	Gly	Phe
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Ala	Ile	Ala	Ser	Thr	Thr	Met	Leu	Val	Glu	Lys	Ser	Leu	Ser	Val
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Ile	Leu	Leu	Val	Val	Ala	Leu	Ala	Met	Leu	Ile	Ile	Asp	Leu	Arg
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				230					235					240
Ile	Tyr	Phe	Ser	Gly	Leu	Ser	Val	Thr	Glu	Arg	Trp	Lys	Pro	Phe
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Leu	Tyr	Arg	Gly	Arg	Ile	Cys	Arg	Arg	Leu	Ser	Val	Val	Phe	Ala
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Gly	Met	Ile	Glu	Leu	Thr	Phe	Phe	Ile	Leu	Ser	Ala	Phe	Lys	Leu
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Arg	Asp	Thr	His	Leu	Trp	Tyr	Phe	Val	Ile	Pro	Gly	Phe	Ser	Ile
				290					295					300
Phe	Gly	Ile	Phe	Trp	Met	Ile	Cys	His	Ile	Ile	Phe	Leu	Leu	Thr
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Leu	Trp	Gly	Phe	His	Thr	Lys	Leu	Asn	Asp	Cys	His	Lys	Val	Tyr
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Phe	Thr	His	Arg	Thr	Asp	Tyr	Asn	Ser	Leu	Asp	Arg	Ile	Met	Ala
				335					340					345
Ser	Lys	Gly	Met	Arg	His	Phe	Cys	Leu	Ile	Ser	Glu	Gln	Leu	Val
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Phe	Phe	Ser	Leu	Leu	Ala	Thr	Ala	Ile	Leu	Gly	Ala	Val	Ser	Trp
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Gln	Pro	Thr	Asn	Gly	Ile	Phe	Leu	Ser	Met	Phe	Leu	Ile	Val	Leu
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Pro	Leu	Glu	Ser	Met	Ala	His	Gly	Leu	Phe	His	Glu	Leu	Gly	Asn
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Cys	Leu	Gly	Gly	Thr	Ser	Val	Gly	Tyr	Ala	Ile	Val	Ile	Pro	Thr

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Asn Phe Cys Ser	410	415	420
Pro Asp Gly Gln Pro	425	430	435
Thr Leu Leu Pro Pro	440	445	450
Glu Leu Asn Leu Arg Ser	455	460	465
Thr Gly Met Leu Asn Ala	470	475	480
Ile Gln Arg Phe Phe Ala Tyr His Met	485	490	495
Ile Glu Thr Tyr Gly Cys	500	505	510
Asp Tyr Ser Thr Ser Gly Leu Ser Phe	515	520	525
Asp Thr Leu His Ser Lys	530	535	540
Leu Lys Ala Phe Leu Glu Leu Arg Thr	545	550	555
Val Asp Gly Pro Arg His	560	565	570
Asp Thr Tyr Ile Leu Tyr Tyr Ser Gly	575	580	585
His Thr His Gly Thr Gly	590	595	600
Glu Trp Ala Leu Ala Gly Gly Asp Thr	605	610	615
Leu Arg Leu Asp Thr Leu	620	625	630
Ile Glu Trp Trp Arg Glu Lys Asn Gly	635	640	645
Ser Phe Cys Ser Arg Leu	650	655	660
Ile Ile Val Leu Asp Ser Glu Asn Ser	665	670	675
Thr Pro Trp Val Lys Glu	680	685	690
Val Arg Lys Ile Asn Asp Gln Tyr Ile			
Ala Val Gln Gly Ala Glu			
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Ala Asp Pro Pro Gln Leu			
Gly Asp Phe Thr Lys Asp Trp Val Glu			
Tyr Asn Cys Asn Ser Ser			
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Arg Thr Val Lys Ala Val			
Tyr Gly Val Ser Lys Arg Trp Ser Asp			
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Thr Gly Ser Asp Val Ala Lys His Trp			
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Ile Thr Tyr Pro Leu Val His Leu Ala			
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<211> 436

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 3551330CB1

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PA-0035 US

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<211> 643

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1440032CD1

<400> 204

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Phe Thr Asp Thr Glu Arg Leu Val Gly Asp Ala Ala Lys Ser Gln
  50          55          60
Ala Ala Leu Asn Pro His Asn Thr Val Phe Asp Ala Lys Arg Leu
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Ile Gly Arg Lys Phe Ala Asp Thr Thr Val Gln Ser Asp Met Lys
  80          85          90
His Trp Pro Phe Arg Val Val Ser Glu Gly Gly Lys Pro Lys Val
  95          100         105
Arg Val Cys Tyr Arg Gly Glu Asp Lys Thr Phe Tyr Pro Glu Glu
  110         115         120
Ile Ser Ser Met Val Leu Ser Lys Met Lys Glu Thr Ala Glu Ala
  125         130         135
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Ile Ala Gly Leu Asn Val Leu Arg Ile Ile Asn Glu Pro Thr Ala
  170         175         180
Ala Ala Ile Ala Tyr Gly Leu Asp Arg Arg Gly Ala Gly Glu Arg
  185         190         195
Asn Val Leu Ile Phe Asp Leu Gly Gly Gly Thr Phe Asp Val Ser
  200         205         210
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Val	Leu	Ser	Ile	Asp	Ala	Gly	Val	Phe	Glu	Val	Lys	Ala	Thr	Ala	215	220	225
Gly	Asp	Thr	His	Leu	Gly	Gly	Glu	Asp	Phe	Asp	Asn	Arg	Leu	Val	230	235	240
Asn	His	Phe	Met	Glu	Glu	Phe	Arg	Arg	Lys	His	Gly	Lys	Asp	Leu	245	250	255
Ser	Gly	Asn	Lys	Arg	Ala	Leu	Arg	Arg	Leu	Arg	Thr	Ala	Cys	Glu	260	265	270
Arg	Ala	Lys	Arg	Thr	Pro	Ser	Ser	Ser	Thr	Gln	Ala	Thr	Leu	Glu	275	280	285
Ile	Asp	Ser	Leu	Phe	Glu	Gly	Val	Asp	Phe	Tyr	Thr	Ser	Ile	Thr	290	295	300
Arg	Ala	Arg	Phe	Glu	Glu	Leu	Cys	Ser	Asp	Leu	Phe	Arg	Ser	Thr	305	310	315
Leu	Glu	Pro	Val	Glu	Lys	Ala	Leu	Arg	Asp	Ala	Lys	Leu	Asp	Lys	320	325	330
Ala	Gln	Ile	His	Asp	Val	Val	Leu	Val	Gly	Gly	Ser	Thr	Arg	Ile	335	340	345
Pro	Lys	Val	Gln	Lys	Leu	Leu	Gln	Asp	Phe	Phe	Asn	Gly	Lys	Glu	350	355	360
Leu	Asn	Lys	Ser	Ile	Asn	Pro	Asp	Glu	Ala	Val	Ala	Tyr	Gly	Ala	365	370	375
Ala	Val	Gln	Ala	Ala	Val	Leu	Met	Gly	Asp	Lys	Cys	Glu	Lys	Val	380	385	390
Gln	Asp	Leu	Leu	Leu	Leu	Asp	Val	Ala	Pro	Leu	Ser	Leu	Gly	Leu	395	400	405
Glu	Thr	Ala	Gly	Gly	Val	Met	Thr	Thr	Leu	Ile	Gln	Arg	Asn	Ala	410	415	420
Thr	Ile	Pro	Thr	Lys	Gln	Thr	Gln	Thr	Phe	Thr	Thr	Tyr	Ser	Asp	425	430	435
Asn	Gln	Pro	Gly	Val	Phe	Ile	Gln	Val	Tyr	Glu	Gly	Glu	Arg	Ala	440	445	450
Met	Thr	Lys	Asp	Asn	Asn	Leu	Leu	Gly	Arg	Phe	Glu	Leu	Ser	Gly	455	460	465
Ile	Pro	Pro	Ala	Pro	Arg	Gly	Val	Pro	Gln	Ile	Glu	Val	Thr	Phe	470	475	480
Asp	Ile	Asp	Ala	Asn	Gly	Ile	Leu	Ser	Val	Thr	Ala	Thr	Asp	Arg	485	490	495
Ser	Thr	Gly	Lys	Ala	Asn	Lys	Ile	Thr	Ile	Thr	Asn	Asp	Lys	Gly	500	505	510
Arg	Leu	Ser	Lys	Glu	Glu	Val	Glu	Arg	Met	Val	His	Glu	Ala	Glu	515	520	525
Gln	Tyr	Lys	Ala	Glu	Asp	Glu	Ala	Gln	Arg	Asp	Arg	Val	Ala	Ala	530	535	540
Lys	Asn	Ser	Leu	Glu	Ala	His	Val	Phe	His	Val	Lys	Gly	Ser	Leu	545	550	555
Gln	Glu	Glu	Ser	Leu	Arg	Asp	Lys	Ile	Pro	Glu	Glu	Asp	Arg	Arg	560	565	570
Lys	Met	Gln	Asp	Lys	Cys	Arg	Glu	Val	Leu	Ala	Trp	Leu	Glu	His	575	580	585
Asn	Gln	Leu	Ala	Glu	Lys	Glu	Glu	Tyr	Glu	His	Gln	Lys	Arg	Glu	590	595	600
Leu	Glu	Gln	Ile	Cys	Arg	Pro	Ile	Phe	Ser	Arg	Leu	Tyr	Gly	Gly	605	610	615
Pro	Gly	Val	Pro	Gly	Gly	Ser	Ser	Cys	Gly	Thr	Gln	Ala	Arg	Gln	620	625	630

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Gly Asp Pro Ser Thr Gly Pro Ile Ile Glu Glu Val Asp
635 640

<210> 205
<211> 775
<212> DNA
<213> Homo sapiens

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<223> a, t, c, g, or other

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cggattgttt taagaaaatg gcagacaaac ccagacatgg gggaaatcgc cagcttcgat 240
aaggccaagc tgaagaaaac ggagacgcag gagaagaaca ccctgccgac caaagagacc 300
attgagcagg agaagcggag tgaaatttcc taagatcctg gagcaggaga agcggagtga 360
aatttcctaa gatcctggag gatttcctac ccccgctctc ttcgagacct cagtcgtgat 420
gtggaggaag agccacctgc aagatggaca cgagccacaa gctgcactgt gaacctgggc 480
actccgcgcc gatgccaccg gcctgtgggt ctctgaaggg accccccccc aatcggactg 540
ccaaattctc cgtgtttgcc cggtgatatta tagaaaatta tttgtatgaa taatgaaact 600
tcccaccaa aaaaagtgc atatttttgt aagtgtttgt cctagaggga aaaaacaact 660
gaaatttaca ttagcagtcg tgtgcaagat tcttacataa ttcaagacct aaaaccagcc 720
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tccaatatga tgaaaaaaag aaggaacaac ggctcgtagc aaaagggcgc cggccacgtg 180
cagcctatct gcgacacgaa ctgtgcccga tgtgtgcccc aggacaaggc tattaacaaa 240
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attcacagca aagtagtcag gaatcgatct cgtgaagccc gcaaggaccg aacaccccca 420
ccccgattta gacctgcggg tgctgccccca cgtccccccac caaagcccat gtaaggagct 480
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<213> Homo sapiens

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<220>

<221> misc_feature

<223> Incyte ID No: 4020439CD1

<400> 207

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Gly	His	Val	Gln	Pro	Ile	Cys	Asp	Thr	Asn	Cys	Ala	Gln	Cys	Val
				20				25					30	
Pro	Lys	Asp	Lys	Ala	Ile	Asn	Lys	Phe	Ile	Ile	Gly	Asn	Thr	Val
				35				40					45	
Glu	Ala	Ala	Ala	Val	Arg	Asp	Ile	Ser	Glu	Ala	Ser	Val	Phe	Asp
				50				55					60	
Ala	Tyr	Val	Leu	Pro	Lys	Leu	Tyr	Leu	Lys	Leu	His	Tyr	Cys	Leu
				65				70					75	
Ser	Cys	Ala	Ile	His	Ser	Lys	Val	Val	Arg	Asn	Arg	Ser	Arg	Glu
				80				85					90	
Ala	Arg	Lys	Asp	Arg	Thr	Pro	Pro	Pro	Arg	Phe	Arg	Pro	Ala	Gly
				95				100					105	
Ala	Ala	Pro	Arg	Pro	Pro	Pro	Lys	Pro	Met					
				110				115						

<210> 208

<211> 4240

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2507087CB1

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cccagccctc	cactgcccgg	cgcagagagg	aagggccgce	gccgccgtcc	cctgacggcg	180
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cagagactgc	aagtgaggaa	cttgataata	gaagttttaga	agagattttg	aacagcattc	300
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tacataattc	tgatgaacac	aaggacattc	agagttgtac	agtagaagtt	cattttcaaa	600
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ccagaacggc	ctgcagagat	aatacttctg	tctatcacat	aagtggaaag	aaaaagacat	720
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ctattaaagt	cttgtgtcgg	agagttgaaa	tattaaatga	acacagagga	gagaagttaa	960
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<210> 209

<211> 1288

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2507087CD1

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<400> 209

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Glu	Gly	Pro	Pro	Pro	Pro	Ser	Pro	Asp	Gly	Ala	Ser	Ser	Asp	Ala
				20					25					30
Glu	Pro	Glu	Pro	Pro	Ser	Gly	Arg	Thr	Glu	Ser	Pro	Ala	Thr	Ala
				35					40					45
Ala	Glu	Thr	Ala	Ser	Glu	Glu	Leu	Asp	Asn	Arg	Ser	Leu	Glu	Glu
				50					55					60
Ile	Leu	Asn	Ser	Ile	Pro	Pro	Pro	Pro	Pro	Pro	Ala	Met	Thr	Asn
				65					70					75
Glu	Ala	Gly	Ala	Pro	Arg	Leu	Met	Ile	Thr	His	Ile	Val	Asn	Gln
				80					85					90
Asn	Phe	Lys	Ser	Tyr	Ala	Gly	Glu	Lys	Ile	Leu	Gly	Pro	Phe	His
				95					100					105
Lys	Arg	Phe	Ser	Cys	Ile	Ile	Gly	Pro	Asn	Gly	Ser	Gly	Lys	Ser
				110					115					120
Asn	Val	Ile	Asp	Ser	Met	Leu	Phe	Val	Phe	Gly	Tyr	Arg	Ala	Gln
				125					130					135
Lys	Ile	Arg	Ser	Lys	Lys	Leu	Ser	Val	Leu	Ile	His	Asn	Ser	Asp
				140					145					150
Glu	His	Lys	Asp	Ile	Gln	Ser	Cys	Thr	Val	Glu	Val	His	Phe	Gln
				155					160					165
Lys	Ile	Ile	Asp	Lys	Glu	Gly	Asp	Asp	Tyr	Glu	Val	Ile	Pro	Asn
				170					175					180
Ser	Asn	Phe	Tyr	Val	Ser	Arg	Thr	Ala	Cys	Arg	Asp	Asn	Thr	Ser
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Val	Tyr	His	Ile	Ser	Gly	Lys	Lys	Lys	Thr	Phe	Lys	Asp	Val	Gly
				200					205					210
Asn	Leu	Leu	Arg	Ser	His	Gly	Ile	Asp	Leu	Asp	His	Asn	Arg	Phe
				215					220					225
Leu	Ile	Leu	Gln	Gly	Glu	Val	Glu	Gln	Ile	Ala	Met	Met	Lys	Pro
				230					235					240
Lys	Gly	Gln	Thr	Glu	His	Asp	Glu	Gly	Met	Leu	Glu	Tyr	Leu	Glu
				245					250					255
Asp	Ile	Ile	Gly	Cys	Gly	Arg	Leu	Asn	Glu	Pro	Ile	Lys	Val	Leu
				260					265					270
Cys	Arg	Arg	Val	Glu	Ile	Leu	Asn	Glu	His	Arg	Gly	Glu	Lys	Leu
				275					280					285
Asn	Arg	Val	Lys	Met	Val	Glu	Lys	Glu	Lys	Asp	Ala	Leu	Glu	Gly
				290					295					300
Glu	Lys	Asn	Ile	Ala	Ile	Glu	Phe	Leu	Thr	Leu	Glu	Asn	Glu	Ile
				305					310					315
Phe	Arg	Lys	Lys	Asn	His	Val	Cys	Gln	Tyr	Tyr	Ile	Tyr	Glu	Leu
				320					325					330
Gln	Lys	Arg	Ile	Ala	Glu	Met	Glu	Thr	Gln	Lys	Glu	Lys	Ile	His
				335					340					345
Glu	Asp	Thr	Lys	Glu	Ile	Asn	Glu	Lys	Ser	Asn	Ile	Leu	Ser	Asn
				350					355					360
Glu	Met	Lys	Ala	Lys	Asn	Lys	Asp	Val	Lys	Asp	Thr	Glu	Lys	Lys
				365					370					375
Leu	Asn	Lys	Ile	Thr	Lys	Phe	Ile	Glu	Glu	Asn	Lys	Glu	Lys	Phe
				380					385					390
Thr	Gln	Leu	Asp	Leu	Glu	Asp	Val	Gln	Val	Arg	Glu	Lys	Leu	Lys
				395					400					405
His	Ala	Thr	Ser	Lys	Ala	Lys	Lys	Leu	Glu	Lys	Gln	Leu	Gln	Lys

	410		415		420
Asp Lys Glu Lys Val	Glu Glu Phe Lys Ser	Ile Pro Ala Lys Ser			
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Asn Asn Ile Ile Asn	Glu Thr Thr Thr Arg	Asn Asn Ala Leu Glu			
	440		445		450
Lys Glu Lys Glu Lys	Glu Glu Lys Lys Leu	Lys Glu Val Met Asp			
	455		460		465
Ser Leu Lys Gln Glu	Thr Gln Gly Leu Gln	Lys Glu Lys Glu Ser			
	470		475		480
Arg Glu Lys Glu Leu	Met Gly Phe Ser Lys	Ser Val Asn Glu Ala			
	485		490		495
Arg Ser Lys Met Asp	Val Ala Gln Ser Glu	Leu Asp Ile Tyr Leu			
	500		505		510
Ser Arg His Asn Thr	Ala Val Ser Gln Leu	Thr Lys Ala Lys Glu			
	515		520		525
Ala Leu Ile Ala Ala	Ser Glu Thr Leu Lys	Glu Arg Lys Ala Ala			
	530		535		540
Ile Arg Asp Ile Glu	Gly Lys Leu Pro Gln	Thr Glu Gln Glu Leu			
	545		550		555
Lys Glu Lys Glu Lys	Glu Leu Gln Lys Leu	Thr Gln Glu Glu Thr			
	560		565		570
Asn Phe Lys Ser Leu	Val His Asp Leu Phe	Gln Lys Val Glu Glu			
	575		580		585
Ala Lys Ser Ser Leu	Ala Met Asn Arg Ser	Arg Gly Lys Val Leu			
	590		595		600
Asp Ala Ile Ile Gln	Glu Lys Lys Ser Gly	Arg Ile Pro Gly Ile			
	605		610		615
Tyr Gly Arg Leu Gly	Asp Leu Gly Ala Ile	Asp Glu Lys Tyr Asp			
	620		625		630
Val Ala Ile Ser Ser	Cys Cys His Ala Leu	Asp Tyr Ile Val Val			
	635		640		645
Asp Ser Ile Asp Ile	Ala Gln Glu Cys Val	Asn Phe Leu Lys Arg			
	650		655		660
Gln Asn Ile Gly Val	Ala Thr Phe Ile Gly	Leu Asp Lys Met Ala			
	665		670		675
Val Trp Ala Lys Lys	Met Thr Glu Ile Gln	Thr Pro Glu Asn Thr			
	680		685		690
Pro Arg Leu Phe Asp	Leu Val Lys Val Lys	Asp Glu Lys Ile Arg			
	695		700		705
Gln Ala Phe Tyr Phe	Ala Leu Arg Asp Thr	Leu Val Ala Asp Asn			
	710		715		720
Leu Asp Gln Ala Thr	Arg Val Ala Tyr Gln	Lys Asp Arg Arg Trp			
	725		730		735
Arg Val Val Thr Leu	Gln Gly Gln Ile Ile	Glu Gln Ser Gly Thr			
	740		745		750
Met Thr Gly Gly Gly	Ser Lys Val Met Lys	Gly Arg Met Gly Ser			
	755		760		765
Ser Leu Val Ile Glu	Ile Ser Glu Glu Glu	Val Asn Lys Met Glu			
	770		775		780
Ser Gln Leu Gln Asn	Asp Ser Lys Lys Ala	Met Gln Ile Gln Glu			
	785		790		795
Gln Lys Val Gln Leu	Glu Glu Arg Val Val	Lys Leu Arg His Ser			
	800		805		810
Glu Arg Glu Met Arg	Asn Thr Leu Glu Lys	Phe Thr Ala Ser Ile			
	815		820		825
Gln Arg Leu Ile Glu	Gln Glu Glu Tyr Leu	Asn Val Gln Val Lys			

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	830		835		840
Glu Leu Glu Ala Asn Val Leu Ala Thr		Ala Pro Asp Lys Lys Lys			
	845		850		855
Gln Lys Leu Leu Glu Glu Asn Val Ser		Ala Phe Lys Thr Glu Tyr			
	860		865		870
Asp Ala Val Ala Glu Lys Ala Gly Lys		Val Glu Ala Glu Val Lys			
	875		880		885
Arg Leu His Asn Thr Ile Val Glu Ile		Asn Asn His Lys Leu Lys			
	890		895		900
Ala Gln Gln Asp Lys Leu Asp Lys Ile		Asn Lys Gln Leu Asp Glu			
	905		910		915
Cys Ala Ser Ala Ile Thr Lys Ala Gln		Val Ala Ile Lys Thr Ala			
	920		925		930
Asp Arg Asn Leu Gln Lys Ala Gln Asp		Ser Val Leu Arg Thr Glu			
	935		940		945
Lys Glu Ile Lys Asp Thr Glu Lys Glu		Val Asp Asp Leu Thr Ala			
	950		955		960
Glu Leu Lys Ser Leu Glu Asp Lys Ala		Ala Glu Val Val Lys Asn			
	965		970		975
Thr Asn Ala Ala Glu Glu Ser Leu Pro		Glu Ile Gln Lys Glu His			
	980		985		990
Arg Asn Leu Leu Gln Glu Leu Lys Val		Ile Gln Glu Asn Glu His			
	995		1000		1005
Ala Leu Gln Lys Asp Ala Leu Ser Ile		Lys Leu Lys Leu Glu Gln			
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His Lys Glu Ile Ser Lys Ile Ser Leu		His Pro Ile Glu Asp Asn			
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Pro Ile Glu Glu Ile Ser Val Leu Ser		Pro Glu Asp Leu Glu Ala			
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Ala Arg Cys His Glu Met Lys Pro Asn		Leu Gly Ala Ile Ala Glu			
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Tyr Lys Lys Lys Glu Glu Leu Tyr Leu		Gln Arg Val Ala Glu Leu			
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Asp Lys Ile Thr Tyr Glu Arg Asp Ser		Phe Arg Gln Ala Tyr Glu			
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Gly Gly Asp Ala Glu Leu Glu Leu Val		Asp Ser Leu Asp Pro Phe			
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Ser Glu Gly Ile Met Phe Ser Val Arg		Pro Pro Lys Lys Ser Trp			
	1175		1180		1185
Lys Lys Ile Phe Asn Leu Ser Gly Gly		Glu Lys Thr Leu Ser Ser			
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Leu Ala Leu Val Phe Ala Leu His His		Tyr Lys Pro Thr Pro Leu			
	1205		1210		1215
Tyr Phe Met Asp Glu Ile Asp Ala Ala		Leu Asp Phe Lys Asn Val			
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Ser Ile Val Ala Phe Tyr Ile Tyr Glu		Gln Thr Lys Asn Ala Gln			
	1235		1240		1245
Phe Ile Ile Ile Ser Leu Arg Asn Asn		Met Phe Glu Ile Ser Asp			

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PA-0035 US

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<211> 990

<212> DNA

PA-0035 US

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1720847CB1

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<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1720847CD1

<400> 225

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Ala Pro Leu Phe Lys Gly Leu Ala Gly Ser Leu Pro Phe Gly Cys
          35          40          45
Leu Ser Leu Leu Gln Pro Thr Glu Lys Thr Ala Leu Gln Arg Trp
          50          55          60
Arg Val Phe Met Lys His Ser Cys Gln Glu Pro Arg His Arg Ala
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<210> 226

<211> 201

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 333776.1c

PA-0035 US

<220>

<221> unsure

<222> 27, 43

<223> a, t, c, g, or other

<400> 226

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<210> 227

<211> 1278

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 3478236CB1

<400> 227

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<210> 228

<211> 252

<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: 3478236CD1

<400> 228

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PA-0035 US

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Asp Thr Tyr Ser Gly Lys Arg Glu Pro Phe Ser Gly Asp His Ser
35 40 45
Ala Asp Gly Phe Glu Val Thr Ser Arg Ser Glu Met Ser Ser Gly
50 55 60
Ser Glu Ile Ser Pro Val Ser Glu Met Pro Ser Ser Ser Glu Pro
65 70 75
Ser Ser Gly Ala Asp Tyr Asp Tyr Ser Glu Glu Tyr Asp Asn Glu
80 85 90
Pro Gln Ile Pro Gly Tyr Ile Val Asp Asp Ser Val Arg Val Glu
95 100 105
Gln Val Val Lys Pro Pro Gln Asn Lys Thr Glu Ser Glu Asn Thr
110 115 120
Ser Asp Lys Pro Lys Arg Lys Lys Lys Gly Gly Lys Asn Gly Lys
125 130 135
Asn Arg Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala Glu Phe
140 145 150
Gln Asn Phe Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His Leu
155 160 165
Glu Ala Val Thr Cys Lys Cys Gln Gln Glu Tyr Phe Gly Glu Arg
170 175 180
Cys Gly Glu Lys Ser Met Lys Thr His Ser Met Ile Asp Ser Ser
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Leu Ser Lys Ile Ala Leu Ala Ala Ile Ala Ala Phe Met Ser Ala
200 205 210
Val Ile Leu Thr Ala Val Ala Val Ile Thr Val Gln Leu Arg Arg
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<210> 229

<211> 5060

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 147541.17

<220>

<221> unsure

<222> 1806-1826

<223> a, t, c, g, or other

<400> 229

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<222> 433-455

<223> a, t, c, g, or other

<400> 230

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Gln Asp Gln Val Leu Leu Leu Gly Ser Lys Ile Leu Lys Pro Arg
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<211> 5165

<212> DNA

<213> Homo sapiens

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<223> a, t, c, g, or other

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<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 1989186CB1

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<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1989186CD1

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35 40 45
Cys Ser Glu Ser Ala Ser Gln Asn Asp Asp Gly Ser Arg Ser Lys
50 55 60
Asp Glu Thr Arg Val Ser Thr Asn Gly Ser Asp Asp Pro Glu Asp
65 70 75
Ala Gly Ala Gly Glu Asn Arg Arg Val Ser Gly Asn Asn Ser Pro
80 85 90
Ser Leu Ser Asn Gly Gly Phe Lys Pro Ser Arg Pro Pro Arg Pro
95 100 105
Ser Arg Pro Pro Pro Pro Thr Pro Arg Arg Pro Ala Ser Val Asn
110 115 120
Gly Ser Pro Ser Ala Thr Ser Glu Ser Asp Gly Ser Ser Thr Gly
125 130 135
Ser Leu Pro Pro Thr Asn Thr Asn Thr Asn Thr Ser Glu Gly Ala
140 145 150
Thr Ser Gly Leu Ile Ile Pro Leu Thr Ile Ser Gly Gly Ser Gly
155 160 165
Pro Arg Pro Leu Asn Pro Val Thr Gln Ala Pro Leu Pro Pro Gly
170 175 180
Trp Glu Gln Arg Val Asp Gln His Gly Arg Val Tyr Tyr Val Asp
185 190 195
His Val Glu Lys Arg Thr Thr Trp Asp Arg Pro Glu Pro Leu Pro
200 205 210
Pro Gly Trp Glu Arg Arg Val Asp Asn Met Gly Arg Ile Tyr Tyr
215 220 225
Val Asp His Phe Thr Arg Thr Thr Thr Trp Gln Arg Pro Thr Leu
230 235 240
Glu Ser Val Arg Asn Tyr Glu Gln Trp Gln Leu Gln Arg Ser Gln
245 250 255
Leu Gln Gly Ala Met Gln Gln Phe Asn Gln Arg Phe Ile Tyr Gly
260 265 270
Asn Gln Asp Leu Phe Ala Thr Ser Gln Ser Lys Glu Phe Asp Pro
275 280 285
Leu Gly Pro Leu Pro Pro Gly Trp Glu Lys Arg Thr Asp Ser Asn
290 295 300
Gly Arg Val Tyr Phe Val Asn His Asn Thr Arg Ile Thr Gln Trp
305 310 315
Glu Asp Pro Arg Ser Gln Gly Gln Leu Asn Glu Lys Pro Leu Pro

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Val Asp His Asn	Arg Arg Thr Thr Thr	Tyr Ile Asp Pro Arg	Thr		
	350		355		360
Gly Lys Ser Ala	Leu Asp Asn Gly Pro	Gln Ile Ala Tyr Val	Arg		
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Asp Phe Lys Ala	Lys Val Gln Tyr Phe	Arg Phe Trp Cys Gln	Gln		
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Leu Ala Met Pro	Gln His Ile Lys Ile	Thr Val Thr Arg Lys	Thr		
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Leu Phe Glu Asp	Ser Phe Gln Gln Ile	Met Ser Phe Ser Pro	Gln		
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Leu Asp Tyr Gly	Gly Val Ala Arg Glu	Trp Phe Phe Leu Leu	Ser		
	440		445		450
His Glu Val Leu	Asn Pro Met Tyr Cys	Leu Phe Glu Tyr Ala	Gly		
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Lys Asp Asn Tyr	Cys Leu Gln Ile Asn	Pro Ala Ser Tyr Ile	Asn		
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Pro Asp His Leu	Lys Tyr Phe Arg Phe	Ile Gly Arg Phe Ile	Ala		
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Met Ala Leu Phe	His Gly Lys Phe Ile	Asp Thr Gly Phe Ser	Leu		
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Pro Phe Tyr Lys	Arg Ile Leu Asn Lys	Pro Val Gly Leu Lys	Asp		
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Leu Glu Ser Ile	Asp Pro Glu Phe Tyr	Asn Ser Leu Ile Trp	Val		
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Lys Glu Asn Asn	Ile Glu Glu Cys Asp	Leu Glu Met Tyr Phe	Ser		
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Val Asp Lys Glu	Ile Leu Gly Glu Ile	Lys Ser His Asp Leu	Lys		
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Pro Asn Gly Gly	Asn Ile Leu Val Thr	Glu Glu Asn Lys Glu	Glu		
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Tyr Ile Arg Met	Val Ala Glu Trp Arg	Leu Ser Arg Gly Val	Glu		
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Glu Gln Thr Gln	Ala Phe Phe Glu Gly	Phe Asn Glu Ile Leu	Pro		
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Leu Cys Gly Met	Gln Glu Ile Asp Leu	Asn Asp Trp Gln Arg	His		
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Ala Ile Tyr Arg	His Tyr Ala Arg Thr	Ser Lys Gln Ile Met	Trp		
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Phe Trp Gln Phe	Val Lys Glu Ile Asp	Asn Glu Lys Arg Met	Arg		
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Phe Ala Asp Leu	Met Gly Ser Asn Gly	Pro Gln Lys Phe Cys	Ile		
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Glu Lys Val Gly	Lys Glu Asn Trp Leu	Pro Arg Ser His Thr	Cys		
	710		715		720
Phe Asn Arg Leu	Asp Leu Pro Pro Tyr	Lys Ser Tyr Glu Gln	Leu		
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740

745

750

Gln Glu

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<211> 957

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 337448.1c

<400> 236

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<211> 1187

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 228304.19

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<221> unsure

<222> 52, 57

<223> a, t, c, g, or other

<400> 237

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<211> 2254

<212> DNA

<213> Homo sapiens

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<220>

<221> unsure

<222> 231, 241

<223> a, t, c, g, or other

<400> 238

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<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 998034.3

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<210> 240

<211> 3845

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 474165.26

<220>

<221> unsure

<222> 11

<223> a, t, c, g, or other

<400> 240

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 <213> Homo sapiens

<220>

PA-0035 US

<221> misc_feature

<223> Incyte ID No: 697785CB1

<400> 241

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<211> 135

<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: 697785CD1

<400> 242

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          20          25          30
Phe Val Leu Asn Leu Gly Lys Asp Ser Asn Asn Leu Cys Leu His
          35          40          45
Phe Asn Pro Arg Phe Asn Ala His Gly Asp Ala Asn Thr Ile Val
          50          55          60
Cys Asn Ser Lys Asp Gly Gly Ala Trp Gly Thr Glu Gln Arg Glu
          65          70          75
Ala Val Phe Pro Phe Gln Pro Gly Ser Val Ala Glu Val Cys Ile
          80          85          90
Thr Phe Asp Gln Ala Asn Leu Thr Val Lys Leu Pro Asp Gly Tyr
          95          100         105
Glu Phe Lys Phe Pro Asn Arg Leu Asn Leu Glu Ala Ile Asn Tyr
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<210> 243

<211> 3763

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 346209.3

<400> 243

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PA-0035 US

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<211> 473

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 167772CB1

<400> 244

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<210> 245

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 167772CD1

<400> 245

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Ala	Gly	Ser	Cys	Lys	Cys	Lys	Glu	Cys	Lys	Cys	Thr	Ser	Cys	Lys
				20					25					30
Lys	Ser	Cys	Cys	Ser	Cys	Cys	Pro	Val	Gly	Cys	Ala	Lys	Cys	Ala
				35					40					45
Gln	Gly	Cys	Ile	Cys	Lys	Gly	Thr	Ser	Asp	Lys	Cys	Ser	Cys	Cys
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<210> 246

<211> 1291

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 2514988CB1

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<221> unsure

<222> 46

PA-0035 US

<223> a, t, c, g, or other

<400> 246

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<210> 247

<211> 316

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2514988CD1

<400> 247

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Glu Leu Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu
          35          40          45
Leu Ala Leu Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr
          50          55          60
Leu Ser Glu Gln Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr
          65          70          75
Gln Glu Leu Arg Ala Leu Met Asp Glu Thr Met Lys Glu Leu Lys
          80          85          90
Ala Tyr Lys Ser Glu Leu Glu Glu Gln Leu Thr Pro Val Ala Glu
          95          100          105
Glu Thr Arg Ala Arg Leu Ser Lys Glu Leu Gln Ala Ala Gln Ala
          110          115          120
Arg Leu Gly Ala Asp Met Glu Asp Val Cys Gly Arg Leu Val Gln
          125          130          135
Tyr Arg Gly Glu Val Gln Ala Met Leu Gly Gln Ser Thr Glu Glu
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Leu	Leu	Arg	Asp	Ala	Asp	Asp	Leu	Gln	Lys	Arg	Leu	Ala	Val	Tyr
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Gln	Ala	Gly	Ala	Arg	Glu	Gly	Ala	Glu	Arg	Gly	Leu	Ser	Ala	Ile
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Arg	Glu	Arg	Leu	Gly	Pro	Leu	Val	Glu	Gln	Gly	Arg	Val	Arg	Ala
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Ala	Thr	Val	Gly	Ser	Leu	Ala	Gly	Gln	Pro	Leu	Gln	Glu	Arg	Ala
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Ser	Arg	Thr	Arg	Asp	Arg	Leu	Asp	Glu	Val	Lys	Glu	Gln	Val	Ala
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Glu	Val	Arg	Ala	Lys	Leu	Glu	Glu	Gln	Ala	Gln	Gln	Ile	Arg	Leu
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Gln	Ala	Glu	Ala	Phe	Gln	Ala	Arg	Leu	Lys	Ser	Trp	Phe	Glu	Pro
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Asn

<210> 248

<211> 857

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 481231.16

<400> 248

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gatgcgcgac	cgcgcgcgcg	cccatgtgga	cgcgctgcgc	acgcattctg	ccccctacag	600
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caagcccgcg	ctcgaggacc	tccgccaagg	cctgctgccc	gtgctggaga	gcttcaagggt	780
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<210> 249

<211> 2310

<212> DNA

<213> Homo sapiens

<220>

PA-0035 US

<221> misc_feature

<223> Incyte ID No: 481231.17

<400> 249

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<210> 250

<211> 4200

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1045853.2

<220>

<221> unsure

<222> 128, 197, 395-532

<223> a, t, c, g, or other

<400> 250

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<211> 1344

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<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 336615.1

<400> 251

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<210> 252

<211> 1120

<212> DNA

<213> Homo sapiens

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<220>

<221> misc_feature

<223> Incyte ID No: 1328423.2

<220>

<221> unsure

<222> 12, 27, 33-34, 1070

<223> a, t, c, g, or other

<400> 252

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<210> 253

<211> 551

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 085282.1

<220>

<221> unsure

<222> 132

<223> a, t, c, g, or other

<400> 253

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<210> 254
<211> 3814
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1081605.3

<220>
<221> unsure
<222> 3792, 3796-3801
<223> a, t, c, g, or other

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<211> 233

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1053517.1

<220>

<221> unsure

<222> 69

<223> a, t, c, g, or other

<400> 255

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agtgtgagca gcctgttgat ggagaaatcc caacttgccc aggaagtcct tcccaacttc 180
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<211> 2622

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 480169.76

<400> 256

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ccacccgagg atggcatctc ctccgtgaag ttcagcccca acacctccca gttcctgctt 180
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 aagtaccagc acaccggcgc cgtcctggac tgcgccttct acgatccaac gcatgcctgg 300
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<210> 257

<211> 1002

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2636043CB1

<400> 257

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 ccagacctct agctctcagg gaggccttgg cgggtctaagt ctgaccacag agccagtttc 180

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<210> 258

<211> 205

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2636043CD1

<400> 258

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Thr Ser Ser Ser Gln Gly Gly Leu Gly Gly Leu Ser Leu Thr Thr
 35          40          45
Glu Pro Val Ser Ser Asn Pro Gly Tyr Ile Pro Ser Ser Glu Ala
 50          55          60
Asn Arg Pro Ser His Leu Ser Ser Thr Gly Thr Pro Gly Ala Gly
 65          70          75
Val Pro Ser Ser Gly Arg Asp Gly Gly Thr Ser Arg Asp Thr Phe
 80          85          90
Gln Thr Val Pro Pro Asn Ser Thr Thr Met Ser Leu Ser Met Arg
 95          100         105
Glu Asp Ala Thr Ile Leu Pro Ser Pro Thr Ser Glu Thr Val Leu
110         115         120
Thr Val Ala Ala Phe Gly Val Ile Ser Phe Ile Val Ile Leu Val
125         130         135
Val Val Val Ile Ile Leu Val Gly Val Val Ser Leu Arg Phe Lys
140         145         150
Cys Arg Lys Ser Lys Glu Ser Glu Asp Pro Gln Lys Pro Gly Ser
155         160         165
Ser Gly Leu Ser Glu Ser Cys Ser Thr Ala Asn Gly Glu Lys Asp
170         175         180
Ser Ile Thr Leu Ile Ser Met Lys Asn Ile Asn Met Asn Asn Gly
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<210> 259

<211> 2539

<212> DNA

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<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2993696CB1

<400> 259

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<210> 260

<211> 654

<212> PRT

<213> Homo sapiens

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<220>

<221> misc_feature

<223> Incyte ID No: 2993696CD1

<400> 260

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Ala	Arg	Ala	Glu	Glu	Glu	Asp	Lys	Lys	Glu	Asp	Val	Gly	Thr	Val
				20					25				30	
Val	Gly	Ile	Asp	Leu	Gly	Thr	Thr	Tyr	Ser	Cys	Val	Gly	Val	Phe
				35					40				45	
Lys	Asn	Gly	Arg	Val	Glu	Ile	Ile	Ala	Asn	Asp	Gln	Gly	Asn	Arg
				50					55				60	
Ile	Thr	Pro	Ser	Tyr	Val	Ala	Phe	Thr	Pro	Glu	Gly	Glu	Arg	Leu
				65					70				75	
Ile	Gly	Asp	Ala	Ala	Lys	Asn	Gln	Leu	Thr	Ser	Asn	Pro	Glu	Asn
				80					85				90	
Thr	Val	Phe	Asp	Ala	Lys	Arg	Leu	Ile	Gly	Arg	Thr	Trp	Asn	Asp
				95					100				105	
Pro	Ser	Val	Gln	Gln	Asp	Ile	Lys	Phe	Leu	Pro	Phe	Lys	Val	Val
				110					115				120	
Glu	Lys	Lys	Thr	Lys	Pro	Tyr	Ile	Gln	Val	Asp	Ile	Gly	Gly	Gly
				125					130				135	
Gln	Thr	Lys	Thr	Phe	Ala	Pro	Glu	Glu	Ile	Ser	Ala	Met	Val	Leu
				140					145				150	
Thr	Lys	Met	Lys	Glu	Thr	Ala	Glu	Ala	Tyr	Leu	Gly	Lys	Lys	Val
				155					160				165	
Thr	His	Ala	Val	Val	Thr	Val	Pro	Ala	Tyr	Phe	Asn	Asp	Ala	Gln
				170					175				180	
Arg	Gln	Ala	Thr	Lys	Asp	Ala	Gly	Thr	Ile	Ala	Gly	Leu	Asn	Val
				185					190				195	
Met	Arg	Ile	Ile	Asn	Glu	Pro	Thr	Ala	Ala	Ala	Ile	Ala	Tyr	Gly
				200					205				210	
Leu	Asp	Lys	Arg	Glu	Gly	Glu	Lys	Asn	Ile	Leu	Val	Phe	Asp	Leu
				215					220				225	
Gly	Gly	Gly	Thr	Phe	Asp	Val	Ser	Leu	Leu	Thr	Ile	Asp	Asn	Gly
				230					235				240	
Val	Phe	Glu	Val	Val	Ala	Thr	Asn	Gly	Asp	Thr	His	Leu	Gly	Gly
				245					250				255	
Glu	Asp	Phe	Asp	Gln	Arg	Val	Met	Glu	His	Phe	Ile	Lys	Leu	Tyr
				260					265				270	
Lys	Lys	Lys	Thr	Gly	Lys	Asp	Val	Arg	Lys	Asp	Asn	Arg	Ala	Val
				275					280				285	
Gln	Lys	Leu	Arg	Arg	Glu	Val	Glu	Lys	Ala	Lys	Arg	Ala	Leu	Ser
				290					295				300	
Ser	Gln	His	Gln	Ala	Arg	Ile	Glu	Ile	Glu	Ser	Phe	Tyr	Glu	Gly
				305					310				315	
Glu	Asp	Phe	Ser	Glu	Thr	Leu	Thr	Arg	Ala	Lys	Phe	Glu	Glu	Leu
				320					325				330	
Asn	Met	Asp	Leu	Phe	Arg	Ser	Thr	Met	Lys	Pro	Val	Gln	Lys	Val
				335					340				345	
Leu	Glu	Asp	Ser	Asp	Leu	Lys	Lys	Ser	Asp	Ile	Asp	Glu	Ile	Val
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Leu	Val	Gly	Gly	Ser	Thr	Arg	Ile	Pro	Lys	Ile	Gln	Gln	Leu	Val
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Lys	Glu	Phe	Phe	Asn	Gly	Lys	Glu	Pro	Ser	Arg	Gly	Ile	Asn	Pro

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Asp	Glu	Ala	Val	Ala	Tyr	Gly	Ala	Ala	Val	Gln	Ala	Gly	Val	Leu	380	385	390
Ser	Gly	Asp	Gln	Asp	Thr	Gly	Asp	Leu	Val	Leu	Leu	Asp	Val	Cys	395	400	405
Pro	Leu	Thr	Leu	Gly	Ile	Glu	Thr	Val	Gly	Gly	Val	Met	Thr	Lys	410	415	420
Leu	Ile	Pro	Arg	Asn	Thr	Val	Val	Pro	Thr	Lys	Lys	Ser	Gln	Ile	425	430	435
Phe	Ser	Thr	Ala	Ser	Asp	Asn	Gln	Pro	Thr	Val	Thr	Ile	Lys	Val	440	445	450
Tyr	Glu	Gly	Glu	Arg	Pro	Leu	Thr	Lys	Asp	Asn	His	Leu	Leu	Gly	455	460	465
Thr	Phe	Asp	Leu	Thr	Gly	Ile	Pro	Pro	Ala	Pro	Arg	Gly	Val	Pro	470	475	480
Gln	Ile	Glu	Val	Thr	Phe	Glu	Ile	Asp	Val	Asn	Gly	Ile	Leu	Arg	485	490	495
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Ile	Thr	Asn	Asp	Gln	Asn	Arg	Leu	Thr	Pro	Glu	Glu	Ile	Glu	Arg	515	520	525
Met	Val	Asn	Asp	Ala	Glu	Lys	Phe	Ala	Glu	Glu	Asp	Lys	Lys	Leu	530	535	540
Lys	Glu	Arg	Ile	Asp	Thr	Arg	Asn	Glu	Leu	Glu	Ser	Tyr	Ala	Tyr	545	550	555
Ser	Leu	Lys	Asn	Gln	Ile	Gly	Asp	Lys	Glu	Lys	Leu	Gly	Gly	Lys	560	565	570
Leu	Ser	Ser	Glu	Asp	Lys	Glu	Thr	Met	Glu	Lys	Ala	Val	Glu	Glu	575	580	585
Lys	Ile	Glu	Trp	Leu	Glu	Ser	His	Gln	Asp	Ala	Asp	Ile	Glu	Asp	590	595	600
Phe	Lys	Ala	Lys	Lys	Lys	Glu	Leu	Glu	Glu	Ile	Val	Gln	Pro	Ile	605	610	615
Ile	Ser	Lys	Leu	Tyr	Gly	Ser	Ala	Gly	Pro	Pro	Thr	Gly	Glu		620	625	630
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<400> 261

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<223> a, t, c, g, or other

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<213> Homo sapiens

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<222> 4850-5163

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<211> 2188

<212> DNA

<213> Homo sapiens

PA-0035 US

<220>

<221> misc_feature

<223> Incyte ID No: 4113161CB1

<400> 269

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<210> 270

<211> 544

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4113161CD1

<400> 270

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Arg Ala Arg Glu Ala	Arg Pro Arg Lys Thr	Pro Arg Pro Gln Leu			
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Ser Asp Arg Ser Arg	Glu Arg Lys Val Pro	Ala Ser Arg Ile Ser			
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Arg Leu Ala Asn Phe	Gly Gly Leu Ala Val	Gly Leu Gly Leu Gly			
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Val Leu Ala Glu Met	Ala Lys Lys Ser Met	Pro Gly Gly Arg Leu			
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Gln Ser Glu Gly Gly	Ser Gly Leu Asp Ser	Ser Pro Phe Leu Ser			
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Glu Ala Asn Ala Glu	Arg Ile Val Gln Thr	Leu Cys Thr Val Arg			
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Gly Ala Ala Leu Lys	Val Gly Gln Met Leu	Ser Ile Gln Asp Asn			
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Pro Gly Ile Ala Gln	Ser Ile Gln Ser Asp	Val Gln Asn Leu Leu			
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Ala Val Leu Lys Met	Ser Ala Ala Leu Pro	Ala Gly Leu Phe Ala			
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Glu Gln Ser Leu Gln	Ala Leu Gln Gln Glu	Leu Ala Trp Glu Cys			
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Asp Tyr Arg Arg Glu	Ala Ala Cys Ala Gln	Asn Phe Arg Gln Leu			
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Leu Cys Thr Thr Arg	Val Leu Gly Met Glu	Leu Ala Gly Gly Val			
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Pro Leu Asp Gln Cys	Gln Gly Leu Ser Gln	Asp Leu Arg Asn Gln			
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Ile Cys Phe Gln Leu	Leu Thr Leu Cys Leu	Arg Glu Leu Phe Glu			
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Phe Arg Phe Met Gln	Thr Asp Pro Asn Trp	Ala Asn Phe Leu Tyr			
	365		370		375
Asp Ala Ser Ser His	Gln Val Thr Leu Leu	Asp Phe Gly Ala Ser			
	380		385		390
Arg Glu Phe Gly Thr	Glu Phe Thr Asp His	Tyr Ile Glu Val Val			
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Lys Ala Ala Ala Asp	Gly Asp Arg Asp Cys	Val Leu Gln Lys Ser			
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Arg Asp Leu Lys Phe	Leu Thr Gly Phe Glu	Thr Lys Ala Phe Ser			
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Asp Ala His Val Glu	Ala Val Met Ile Leu	Gly Glu Pro Phe Ala			

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Pro	Pro	Glu	Glu	Thr	Tyr	Ala	Leu	His	Arg	Lys	Leu	Ala	Gly	Ala	470	475	480
Phe	Leu	Ala	Cys	Ala	His	Leu	Arg	Ala	His	Ile	Ala	Cys	Arg	Asp	485	490	495
Leu	Phe	Gln	Asp	Thr	Tyr	His	Arg	Tyr	Trp	Ala	Ser	Arg	Gln	Pro	500	505	510
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<213> Homo sapiens

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<223> Incyte ID No: 2757583CB1

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<210> 272
<211> 61
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2757583CD1

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Gln Gly Cys Val Cys Lys Gly Ala Ser Glu Lys Cys Ser Cys Cys
50 55 60
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<210> 273
<211> 1077

PA-0035 US

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 198317.1

<220>

<221> unsure

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<223> a, t, c, g, or other

<400> 273

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<211> 3282

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 1508254CB1

<220>

<221> unsure

<222> 3130

<223> a, t, c, g, or other

<400> 274

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PA-0035 US

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<223> a, t, c, g, or other

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<223> a, t, c, g, or other

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aagctgaaga aaacggagac gcaggagaag aacaccctgc cgaccaaaga gaccattgag 180
caggagaagc ggagtgaat ttctaagat cctggaggat ttctacccc cgctctcttc 240
gagacccagc tcgtgatgtg gaggaagagc cacctgcaag atggacacga gccacaagct 300
gcactgtgaa cctgggcact ccgcgccgat gccaccggcc tgtgggtctc tgaagggacc 360
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459

<210> 293

<211> 5105

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 400253.17c

<220>

<221> unsure

<222> 31, 1622, 1987-2279

<223> a, t, c, g, or other

<400> 293

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ccattggagc	ctgcagtttt	tcctctccta	atcgaaactg	gtaaagcagg	gcaggagaat	4980
caggatgtcg	aatctgaaac	tcattgtcct	gaagcccaga	gatgtcctga	ttccaggaaa	5040
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<210> 294

<211> 2337

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 400253.5

PA-0035 US

<220>

<221> unsure

<222> 1924, 2298, 2310

<223> a, t, c, g, or other

<400> 294

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ctggaaatat ttactgaaac tctgttaaata tcaaaattgt atgtttctgt aggctaccat 180
tttaaagttc tgatgaccaa ctgtttatta gaatactaaa aatgtggcca agcggccccg 240
cgatgtcgct cgtgtgctta agcctggccg cgctgtgcag gagcgccgta ccccgagagc 300
cgaccgttca atgtggctct gaaactgggc catctccaga gtggatgcta caacatgatc 360
taatccccgg agacttgagg gacctccgag tagaacctgt tacaactagt gttgcaacag 420
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<210> 295

<211> 377

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 030882CB1

<400> 295

PA-0035 US

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gcagtggagg gcaatgtctc tattctgcct gcccgatctt taccaaaatt caaggcacct 240
gttacagagg gaaggccaag tgctgcaagt gagctgagag tgaccagaag aaatgacgca 300
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aaaagaaaaa aaaaagg 377
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<210> 296

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 030882CD1

<400> 296

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Ser Glu Met Ala Ser Gly Gly Asn Phe Leu Thr Gly Leu Gly His
          20          25          30
Arg Ser Asp His Tyr Asn Cys Val Ser Ser Gly Gly Gln Cys Leu
          35          40          45
Tyr Ser Ala Cys Pro Ile Phe Thr Lys Ile Gln Gly Thr Cys Tyr
          50          55          60
Arg Gly Lys Ala Lys Cys Cys Lys
          65
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<210> 297

<211> 1115

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 898779CB1

<400> 297

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cagcagccgt ccggagccag ccaacgagcg gaaaatggca gacaattttt cgctccatga 240
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gcctgctggg gcagggggct acccaggggc ttctatcct ggggcctacc ccgggcaggc 360
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PA-0035 US

atctacttaa taaatattac agtgaaaaaa aaaaa

1115

<210> 298

<211> 250

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 898779CD1

<400> 298

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				20					25					30	
Ala	Gly	Ala	Gly	Gly	Tyr	Pro	Gly	Ala	Ser	Tyr	Pro	Gly	Ala	Tyr	
				35					40					45	
Pro	Gly	Gln	Ala	Pro	Pro	Gly	Ala	Tyr	Pro	Gly	Gln	Ala	Pro	Pro	
				50					55					60	
Gly	Ala	Tyr	His	Gly	Ala	Pro	Gly	Ala	Tyr	Pro	Gly	Ala	Pro	Ala	
				65					70					75	
Pro	Gly	Val	Tyr	Pro	Gly	Pro	Pro	Ser	Gly	Pro	Gly	Ala	Tyr	Pro	
				80					85					90	
Ser	Ser	Gly	Gln	Pro	Ser	Ala	Pro	Gly	Ala	Tyr	Pro	Ala	Thr	Gly	
				95					100					105	
Pro	Tyr	Gly	Ala	Pro	Ala	Gly	Pro	Leu	Ile	Val	Pro	Tyr	Asn	Leu	
				110					115					120	
Pro	Leu	Pro	Gly	Gly	Val	Val	Pro	Arg	Met	Leu	Ile	Thr	Ile	Leu	
				125					130					135	
Gly	Thr	Val	Lys	Pro	Asn	Ala	Asn	Arg	Ile	Ala	Leu	Asp	Phe	Gln	
				140					145					150	
Arg	Gly	Asn	Asp	Val	Ala	Phe	His	Phe	Asn	Pro	Arg	Phe	Asn	Glu	
				155					160					165	
Asn	Asn	Arg	Arg	Val	Ile	Val	Cys	Asn	Thr	Lys	Leu	Asp	Asn	Asn	
				170					175					180	
Trp	Gly	Arg	Glu	Glu	Arg	Gln	Ser	Val	Phe	Pro	Phe	Glu	Ser	Gly	
				185					190					195	
Lys	Pro	Phe	Lys	Ile	Gln	Val	Leu	Val	Glu	Pro	Asp	His	Phe	Lys	
				200					205					210	
Val	Ala	Val	Asn	Asp	Ala	His	Leu	Leu	Gln	Tyr	Asn	His	Arg	Val	
				215					220					225	
Lys	Lys	Leu	Asn	Glu	Ile	Ser	Lys	Leu	Gly	Ile	Ser	Gly	Asp	Ile	
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Asp	Leu	Thr	Ser	Ala	Ser	Tyr	Thr	Met	Ile						
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<210> 299

<211> 529

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3727408CB1

<400> 299

PA-0035 US

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aatgcctcct cagctgcaaa acggcctgaa cctctcggcc aaagtgtgcc agggaagcct 180
ggacagccta cccaggcag tgagggagtt tctcgagaat aacgctgagc tgtgtcagcc 240
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ggaggaagag ggcacctca ggcggctgaa gaagtatgac aactgctggt tggctctcac 360
tgaccccagg gatgtggcca ggatcgaaag caagacgggt atcgtcacc aagagcaaag 420
agacacagtg gcccttcccc agaacaggcc ttagccagct tcgttcgttg gatttcaaag 480
gaggattttt agaagcgtcc aatgccaggt tccaggatgc attaaagtc 529
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<210> 300

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3727408CD1

<400> 300

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Val Gln Gly Ser Leu Asp Ser Leu Pro Gln Ala Val Arg Glu Phe
          20          25          30
Leu Glu Asn Asn Ala Glu Leu Cys Gln Pro Asp His Ile His Ile
          35          40          45
Cys Asp Gly Ser Glu Glu Glu Asn Gly Arg Leu Leu Gly Gln Met
          50          55          60
Glu Glu Glu Gly Ile Leu Arg Arg Leu Lys Lys Tyr Asp Asn Cys
          65          70          75
Trp Leu Ala Leu Thr Asp Pro Arg Asp Val Ala Arg Ile Glu Ser
          80          85          90
Lys Thr Val Ile Val Thr Gln Glu Gln Arg Asp Thr Val Ala Leu
          95          100          105
Pro Gln Asn Arg Pro
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<210> 301

<211> 903

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 984236.1c

<400> 301

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ttcggggaga actcctagaa ctcatgcaac gaattgaact tcccttgtec ctaccagcct 180
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gtgagagcag agaccttctg aaccagctaa gggaaggaaat ggcagattct acagcaggga 540
gcaaatcatc ctgagcccag gagttcagag atccctgtgt cctgcagtga cctgcctgcc 600
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tatggaatgg agctgggttc atctcatcac attagattat cctcaggggt gacaccaaag 660
caccagaca gatttagaag cccaaagttt aggggtcaaat gtaaaccctg gaacctgagt 720
cccaagaaat ggtagactgg gaatggaaag aatggggtaa accacagtct acatagggaa 780
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gcc 903
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<210> 302

<211> 581

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 984236.2c

<220>

<221> unsure

<222> 422

<223> a, t, c, g, or other

<400> 302

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cacacacctt gggttgtggc aatgggtggag cttctagtct taagaaggac ttaggataca 120
ggcagaggca ggatcctgag gggaaaaaaga cctgggaaag aagaccactg tagatttctc 180
agggcttgca tgttggtgac tcttggtttt tttatttcag tgagggcaaa ggctcttacc 240
tgggtgggaac cctcttgctc gcaatcgtct tgccctctgc tgacacttgc tgattggcct 300
caacacttgg aattctgctc ggatcctagg attgtaaacc tgttgccctg cccccaacca 360
aggccaagac agatcagagt gggccatttc tgtctttact accccaaccg tatctctctc 420
tntcaactcac acttcggagc tccagtcctg agtcgatgac atgttggatg gaagggaggg 480
agaaggagaa gtcagccagc cagtgaagtga ccacaacctt tcgggcatcc atgtcctcat 540
acacagcctg aacggctcgt ccacagtcct ggtgaagggg c 581
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<210> 303

<211> 881

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 348082.5

<400> 303

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agaaaaacgc acaaagcaat tttcagatgc cagtcaattg gatttcgtta aaacacgaaa 180
atcaaaaagc atggatttag gtatagctga cgagactaaa ctcaatacag tggatgacca 240
gaaagcaggt tctcccagca gagatgtggg tccttccctg ggtctgaaga agtcaagctc 300
gttgagagat ctgcagaccg cagttgccga ggtgactttg aatgggggata ttcctttcca 360
tcgtccacgg ccgcggtata tcagaggcag gggatgcaat gagagcttca gagctgccat 420
cgacaaatct tatgataaac ccgcggtaga tgatgatgat gaaggcatgg agaccttgga 480
agaagacaca gaagaaagt caagatcagg gagagagtct gtatccacag ccagtgatca 540
gccttcccac tctctggaga gacaaatgaa tggaaaccaa gagaaagggtg ataagactga 600
tagaaaaaag gataaaactg gaaaagaaaa gaagaaagat agagataagg agaaggataa 660
aatgaaagcc aagaagggaa tgctgaaggg cttgggagac atgttcagga ttcaagccaa 720
aactcgagaa tttaggggaa gacaagctcg agagcgtgac tatgctgaaa ttcaagattt 780
```

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tcatcggaca tttggctgtg atgatgagtt aatgtatggg ggagtttctt cttatgaagg 840
ttccatggct ctcaacgcta gacctcagag cccacgagaa g 881

<210> 304
<211> 1380
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 348082.7

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tgctcgaggc ggcagaaccc tggggttatt agtaaaacga ttggagaaag gtggtaaaagc 240
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tcgaaataga agatttgaac aagcacaaca tatgtttcgc caagccatgc gtacacccat 360
catttggttc catgtggttc ctgcagcaaa taaagagcag tatgaacaac tatcccaaag 420
tgagaagaac aattactatt caagccgttt tagccctgac agccagtata ttgacaacag 480
gagtgtgaac agtgcagggc ttcacacggt gcagagagca ccccgactga accacccgcc 540
tgagcagata gactctcact caagactacc tcatagcgca caccctcgg gaaaaccacc 600
atccgctcca gctcggcac ctcagaatgt atttagtacg actgtaagca gtggttataa 660
caccaaaaaa ataggcaaga ggcttaatat ccagcttaag aaaggtaacag aaggtttggg 720
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caagacaaac caagatgcc a tggaaaccct aagaaggct atgtctactg aaggcaataa 1320
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<210> 305
<211> 1091
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1097910.1

<400> 305
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ctttgagaag ggccacatcc gggacatcac agacagcctg attgagcact gtcaggagaa 180
gcagctggat gagaacgcca atgtccagct gtcagatgag aagatcatta acatcgtctt 240
ggacctcttt ggagctgggt ttgacacagt cacaactgct atctcctgga gcctcatgta 300
tttgggtgatg aacccccaggg tacagagaaa gatccaagag gagctagaca cagtgtattg 360
caggtcacgg cgccccggc tctctgacag atcccatctg ccttatatgg aggccttcat 420
cctggagacc ttccgacact cttccttcgt ccccttcacc atccccaca gcacaacaag 480
agacacaagt ttgaaaggct tttacatccc caaggggctg tgtgtctttg taaaccagt 540

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gcagatcaac catgaccaga agctatgggt caacccatct gagttcctac ctgaacgggt 600
tctcaccct gatgggtgcta tcgacaaggt gttaagttag aaggtgatta tctttggcat 660
gggcaagcgg aagtgtatcg gtgagaccgt tgcccgtctg gaggtctttc tcttcctggc 720
tattcctgctg caacgggtgg aattcagcgt gccactgggc gtgaagggtg acatgacccc 780
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ctgcagtgtt gctatctggg ctgtgggcaa gcctaaggga tccctgcctgc cctaccctg 1020
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<210> 306

<211> 3189

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 246841.1

<400> 306

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gatgcagaaa aaaggggaaag ggttcttgtt acttgagaat ttgtttctga tttaaacaaa 540
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cacaaaaact ttgttgtcat agttaagttg attgtagatg gtaattgaat atactccttt 3120
gaaaatattt catcaagtat gtttctctgt cattgtgata cattaataaa aaaatatgag 3180
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<210> 307

<211> 757

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 351241.1

<400> 307

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cccagcaacg tgcagcagcc ctacaggga tccccaacaa aattagtttt aaaaggcttg 600
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acctctggag acaaaaatga ctcagtggat aacacgctat ggagtctctg caataaccca 720
gcacacttca acccatccca ctaaacctta ggccttt

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757

<210> 308

<211> 1079

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2790762CB1

<400> 308

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ccggcatgaa gacagactcg cttagtcgcc agtcacttaa gctgagtgca ttgtgatttc 60
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gcttgactaa gccgccagcg cacagcgcgg caggacgcgc ccgggtctca gcggacttgt 180
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ttaagcgctt ttaatatgga gacagatgag agccctctc cgctcccgtg tgggcccga 300
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gcaggcgggt tcacggctaa agcaatcggt cagagagaca gaggggatga agaggccttg 960
aatttcccct acgagggtat ttggcagccc ctctctaga gggctcttag caaaacccaa 1020
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<210> 309

<211> 247

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2790762CD1

<400> 309

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Gly	Glu	Ala	Val	Met	Glu	Ser	Arg	Ala	Arg	Pro	Phe	Gln	Ala	Leu	
				20					25					30	
Pro	Arg	Glu	Gln	Ser	Pro	Pro	Pro	Pro	Leu	Gln	Thr	Ser	Ser	Gly	
				35					40					45	
Ala	Glu	Val	Met	Asp	Val	Gly	Ser	Gly	Gly	Asp	Gly	Gln	Ser	Glu	
				50					55					60	
Leu	Pro	Ala	Glu	Asp	Pro	Phe	Asn	Phe	Tyr	Gly	Ala	Ser	Leu	Leu	
				65					70					75	
Ser	Lys	Gly	Ser	Phe	Ser	Lys	Gly	Arg	Leu	Leu	Ile	Asp	Pro	Asn	
				80					85					90	
Cys	Ser	Gly	His	Ser	Pro	Arg	Thr	Ala	Arg	His	Ala	Pro	Ala	Val	
				95					100					105	
Arg	Lys	Phe	Ser	Pro	Asp	Leu	Lys	Leu	Leu	Lys	Asp	Val	Lys	Ile	
				110					115					120	
Ser	Val	Ser	Phe	Thr	Glu	Ser	Cys	Arg	Ser	Lys	Asp	Arg	Lys	Val	
				125					130					135	
Leu	Tyr	Thr	Gly	Ala	Glu	Arg	Asp	Val	Arg	Ala	Glu	Cys	Gly	Leu	
				140					145					150	
Leu	Leu	Ser	Pro	Val	Ser	Gly	Asp	Val	His	Ala	Cys	Pro	Phe	Gly	
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Gly	Ser	Val	Gly	Asp	Gly	Val	Gly	Ile	Gly	Gly	Glu	Ser	Ala	Asp	
				170					175					180	
Lys	Lys	Asp	Glu	Glu	Asn	Glu	Leu	Asp	Gln	Glu	Lys	Arg	Val	Glu	
				185					190					195	
Tyr	Ala	Val	Leu	Asp	Glu	Leu	Glu	Asp	Phe	Thr	Asp	Asn	Leu	Glu	
				200					205					210	
Leu	Asp	Glu	Glu	Gly	Ala	Gly	Gly	Phe	Thr	Ala	Lys	Ala	Ile	Val	

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215 220 225
Gln Arg Asp Arg Val Asp Glu Glu Ala Leu Asn Phe Pro Tyr Glu
230 235 240
Val Cys Trp Gln Pro Leu Leu
245

<210> 310

<211> 713

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2253717CB1

<400> 310

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gctgctgctg ctgctcagtg cggcggtgtg ccgggctgag gctgggctcg aaaccgaaag 180
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<210> 311

<211> 201

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2253717CD1

<400> 311

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20 25 30
Thr Glu Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val Glu
35 40 45
Pro Pro Glu Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu
50 55 60
His Ile His Tyr Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp
65 70 75
Thr Ser Leu Thr Arg Asp Pro Leu Val Ile Glu Leu Gly Gln Lys
80 85 90
Gln Val Ile Pro Gly Leu Glu Gln Ser Leu Leu Asp Met Cys Val
95 100 105
Gly Glu Lys Arg Arg Ala Ile Ile Pro Ser His Leu Ala Tyr Gly
110 115 120
Lys Arg Gly Phe Pro Pro Ser Val Pro Ala Asp Ala Val Val Gln
125 130 135

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Tyr Asp Val Glu Leu Ile Ala Leu Ile Arg Ala Asn Tyr Trp Leu
140 145 150
Lys Leu Val Lys Gly Ile Leu Pro Leu Val Gly Met Ala Met Val
155 160 165
Pro Ala Leu Leu Gly Leu Ile Gly Tyr His Leu Tyr Arg Lys Ala
170 175 180
Asn Arg Pro Lys Val Ser Lys Lys Lys Leu Lys Glu Glu Lys Arg
185 190 195
Asn Lys Ser Lys Lys Lys
200

<210> 312

<211> 1093

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2655184CB1

<400> 312

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<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2655184CD1

<400> 313

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20 25 30
Pro Pro Ser Glu Ser Ala Leu Ala Ser Gln Leu Ala Leu Ser Ala
35 40 45

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Ser Cys Asp Gln Arg Ala Pro Phe Ser Leu Ala Gly Val Val Ser
50 55 60
His Asp Pro Gly Trp Pro Val Val Arg Leu His Arg Pro Leu Val
65 70 75
Pro Glu His Ala Val Phe Ser Gln Pro Ser Leu Gln Pro
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<210> 314

<211> 3026

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 363000.9c

<400> 314

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<210> 315

<211> 1721

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 232818.15

<220>

<221> unsure

<222> 119, 126

<223> a, t, c, g, or other

<400> 315

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agaaccggag	gctgaagcag	gccaaaagaag	aagctcaggc	tgaaattgaa	cagtaccgcc	420
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<210> 316
<211> 1489
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 347781.10

<220>
<221> unsure
<222> 524-538
<223> a, t, c, g, or other

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<210> 317
<211> 2833
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2477616CB1

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<210> 318

<211> 466

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2477616CD1

<400> 318

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5

10

15

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His	Arg	Phe	Tyr	Gly	Lys	Asn	Ser	Ser	Tyr	Val	His	Gly	Gly	Leu	
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Ile	His	Arg	Lys	Val	Met	Ser	Gln	Asn	Phe	Thr	Asn	Cys	His	Thr	
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Lys	Ile	Arg	His	Val	Asp	Ala	His	Ala	Thr	Leu	Asn	Asp	Gly	Val	
				80					85					90	
Val	Val	Gln	Val	Met	Gly	Leu	Leu	Ser	Asn	Asn	Asn	Gln	Ala	Leu	
				95					100					105	
Arg	Arg	Phe	Met	Gln	Thr	Phe	Val	Leu	Ala	Pro	Glu	Gly	Ser	Val	
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Asn	Asp	Met	Glu	Glu	His	Leu	Glu	Glu	Pro	Val	Ala	Glu	Pro	Glu	
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Gln	Glu	Glu	Lys	Pro	Glu	Pro	Val	Leu	Glu	Glu	Thr	Ala	Pro	Glu	
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Asp	Ala	Gln	Lys	Ser	Ser	Ser	Pro	Ala	Pro	Ala	Asp	Ile	Ala	Gln	
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Pro	Pro	His	Val	Val	Lys	Val	Pro	Ala	Ser	Gln	Pro	Arg	Pro	Glu	
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Asn	Leu	Pro	His	Glu	Val	Asp	Lys	Ser	Glu	Leu	Lys	Asp	Phe	Phe	
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Gln	Ser	Tyr	Gly	Asn	Val	Val	Glu	Leu	Arg	Ile	Asn	Ser	Gly	Gly	
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Lys	Leu	Pro	Asn	Phe	Gly	Phe	Val	Val	Phe	Asp	Asp	Ser	Glu	Pro	
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				395					400					405	
Val	Arg	Leu	Asn	Val	Glu	Glu	Lys	Lys	Thr	Arg	Ala	Ala	Arg	Glu	
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Gly	Asp	Arg	Arg	Asp	Asn	Arg	Leu	Arg	Gly	Pro	Gly	Gly	Pro	Arg	
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Gly Gly Leu Gly Gly Gly Met Arg Gly Pro Pro Arg Gly Gly Met
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455 460 465
Gln

<210> 319
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<213> Homo sapiens

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<223> Incyte ID No: 360532.1

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<211> 498

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<213> Homo sapiens

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<210> 322

<211> 1939

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 478620.53

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<210> 323

<211> 1684

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 1813444CB1

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<211> 462

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1813444CD1

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Ser	Tyr	Gly	Gln	Pro	Gln	Ser	Gly	Ser	Tyr	Ser	Gln	Gln	Pro	Ser
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Gln	Ser	Ser	Met	Ser	Ser	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Tyr	Gly
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Gln	Asp	Arg	Gly	Arg	Arg	Gly	Arg	Gly	Gly	Ser	Gly	Gly	Gly	Gly
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Glu	Val	Tyr	Leu	His	Thr	Ser	Pro	His	Leu	Lys	Ala	Asp	Val	Leu
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Phe	Gln	Thr	Asp	Pro	Thr	Ala	Glu	Met	Ala	Ala	Glu	Ser	Leu	Pro
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Glu	Asp	Leu	Gln	Glu	Val	Leu	Ser	Ser	Asp	Glu	Asn	Gly	Gly	Thr
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Tyr	Val	Ser	Pro	Pro	Gly	Asn	Glu	Glu	Glu	Glu	Ser	Lys	Ile	Phe
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<211> 2825

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 474588.21

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<221> unsure

<222> 1733, 2736, 2816

<223> a, t, c, g, or other

<400> 325

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<210> 326

<211> 997

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 407838.1

<220>

<221> unsure

<222> 740, 746, 819

<223> a, t, c, g, or other

<400> 326

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<213> Homo sapiens

<220>
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<213> Homo sapiens

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<223> Incyte ID No: 406498.4c

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PA-0035 US

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PA-0035 US

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Ser	Thr	Ser	Leu	Glu	Ser	Ser	Asp	Cys	Glu	Ser	Leu	Asp	Ser	Ser	
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<212> DNA

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<223> Incyte ID No: 4005778CB1

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PA-0035 US

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35 40 45
Glu Gly Val Ser His Phe Phe Arg Glu Leu Ala Glu Glu Lys Arg
50 55 60
Glu Gly Tyr Glu Arg Leu Leu Lys Met Gln Asn Gln Arg Gly Gly
65 70 75
Arg Ala Leu Phe Gln Asp Ile Lys Lys Pro Ala Glu Asp Glu Trp
80 85 90
Gly Lys Thr Pro Asp Ala Met Lys Ala Ala Met Ala Leu Glu Lys
95 100 105
Lys Leu Asn Gln Ala Leu Leu Asp Leu His Ala Leu Gly Ser Ala
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Arg Thr Asp Pro His Leu Cys Asp Phe Leu Glu Thr His Phe Leu
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Asp Glu Glu Val Lys Leu Ile Lys Lys Met Gly Asp His Leu Thr
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<223> a, t, c, g, or other

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35 40 45
Ser Ile Gly Thr Glu Asn Thr Glu Glu Asn Arg Arg Phe Tyr Arg
50 55 60
Gln Leu Leu Leu Thr Ala Asp Asp Arg Val Asn Pro Cys Ile Gly
65 70 75
Gly Val Ile Leu Phe His Glu Thr Leu Tyr Gln Lys Ala Asp Asp
80 85 90
Gly Arg Pro Phe Pro Gln Val Ile Lys Ser Lys Gly Gly Val Val
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Gly Ile Lys Val Asp Lys Gly Val Val Pro Leu Ala Gly Thr Asn
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125 130 135
Ala Gln Tyr Lys Lys Asp Gly Ala Asp Phe Ala Lys Trp Arg Cys
140 145 150
Val Leu Lys Ile Gly Glu His Thr Pro Ser Ala Leu Ala Ile Met
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Glu Asn Ala Asn Val Leu Ala Arg Tyr Ala Ser Ile Cys Gln Gln
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Gly Thr Leu Leu Lys Pro Asn Met Val Thr Pro Gly His Ala Cys
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275 280 285
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Gly Lys Lys Glu Asn Leu Lys Ala Ala Gln Glu Glu Tyr Val Lys
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<211> 392

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<213> Homo sapiens

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<223> Incyte ID No: 481480.7

PA-0035 US

<220>

<221> unsure

<222> 311, 324, 353, 382, 389

<223> a, t, c, g, or other

<400> 346

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<210> 347

<211> 1860

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PA-0035 US

<210> 348

<211> 450

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 662575CD1

<400> 348

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Pro	Pro	Ser	Asp	Asp	Tyr	Asp	Asp	Thr	Asp	Asp	Asp	Asp	Pro	Phe
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<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 027619.3

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<221> unsure

<222> 844, 847

<223> a, t, c, g, or other

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<212> PRT

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PA-0035 US

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PA-0035 US

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Lys	Ser	Lys	Glu	Pro	Lys	Glu	Glu	Lys	Lys	Asp	Asp	Asp	Glu	Glu
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Phe	Ile	Tyr	Gly	Asp	Ile	Pro	Pro	Gly	Met	Val	Ser	Glu	Pro	Leu
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Glu	Ser	Leu	Val	Lys	Ile	Leu	Ala	Arg	Gly	Phe	Cys	Val	Gly	Glu	170	175	180
Phe	Thr	Phe	Leu	Arg	Asp	Pro	Trp	Asn	Trp	Leu	Asp	Phe	Val	Val	185	190	195
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Leu	Glu	Phe	Gln	Gln	Met	Leu	Asp	Arg	Leu	Lys	Lys	Glu	Gln	Glu	425	430	435
Glu	Ala	Glu	Ala	Ile	Ala	Ala	Ala	Ala	Ala	Glu	Tyr	Thr	Ser	Ile	440	445	450
Arg	Arg	Ser	Arg	Ile	Met	Gly	Leu	Ser	Glu	Ser	Ser	Ser	Glu	Thr	455	460	465
Ser	Lys	Leu	Ser	Ser	Lys	Ser	Ala	Lys	Glu	Arg	Arg	Asn	Arg	Arg	470	475	480
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Asp	Ala	Glu	Lys	Leu	Ser	Lys	Ser	Glu	Ser	Glu	Asp	Ser	Ile	Arg	500	505	510
Arg	Lys	Ser	Phe	His	Leu	Gly	Val	Glu	Gly	His	Arg	Arg	Ala	His	515	520	525
Glu	Lys	Arg	Leu	Ser	Thr	Pro	Asn	Gln	Ser	Pro	Leu	Ser	Ile	Arg	530	535	540
Gly	Ser	Leu	Phe	Ser	Ala	Arg	Arg	Ser	Ser	Arg	Thr	Ser	Leu	Phe	545	550	555
Ser	Phe	Lys	Gly	Arg	Gly	Arg	Asp	Ile	Gly	Ser	Glu	Thr	Glu	Phe	560	565	570

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Gly Ser Leu Phe Val Pro His Arg Pro Gln Glu Arg Arg Ser Ser	590	595	600
Asn Ile Ser Gln Ala Ser Arg Ser Pro Pro Met Leu Pro Val Asn	605	610	615
Gly Lys Met His Ser Ala Val Asp Cys Asn Gly Val Val Ser Leu	620	625	630
Val Asp Gly Arg Ser Ala Leu Met Leu Pro Asn Gly Gln Leu Leu	635	640	645
Pro Glu Gly Thr Thr Asn Gln Ile His Lys Lys Arg Arg Cys Ser	650	655	660
Ser Tyr Leu Leu Ser Glu Asp Met Leu Asn Asp Pro Asn Leu Arg	665	670	675
Gln Arg Ala Met Ser Arg Ala Ser Ile Leu Thr Asn Thr Val Glu	680	685	690
Glu Leu Glu Glu Ser Arg Gln Lys Cys Pro Pro Trp Trp Tyr Arg	695	700	705
Phe Ala His Lys Phe Leu Ile Trp Asn Cys Ser Pro Tyr Trp Ile	710	715	720
Lys Phe Lys Lys Cys Ile Tyr Phe Ile Val Met Asp Pro Phe Val	725	730	735
Asp Leu Ala Ile Thr Ile Cys Ile Val Leu Asn Thr Leu Phe Met	740	745	750
Ala Met Glu His His Pro Met Thr Glu Glu Phe Lys Asn Val Leu	755	760	765
Ala Ile Gly Asn Leu Val Phe Thr Gly Ile Phe Ala Ala Glu Met	770	775	780
Val Leu Lys Leu Ile Ala Met Asp Pro Tyr Glu Tyr Phe Gln Val	785	790	795
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Glu Leu Phe Leu Ala Asp Val Glu Gly Leu Ser Val Leu Arg Ser	815	820	825
Phe Arg Leu Leu Arg Val Phe Lys Leu Ala Lys Ser Trp Pro Thr	830	835	840
Leu Asn Met Leu Ile Lys Ile Ile Gly Asn Ser Val Gly Ala Leu	845	850	855
Gly Asn Leu Thr Leu Val Leu Ala Ile Ile Val Phe Ile Phe Ala	860	865	870
Val Val Gly Met Gln Leu Phe Gly Lys Ser Tyr Lys Glu Cys Val	875	880	885
Cys Lys Ile Asn Asp Asp Cys Thr Leu Pro Arg Trp His Met Asn	890	895	900
Asp Phe Phe His Ser Phe Leu Ile Val Phe Arg Val Leu Cys Gly	905	910	915
Glu Trp Ile Glu Thr Met Trp Asp Cys Met Glu Val Ala Gly Gln	920	925	930
Ala Met Cys Leu Ile Val Tyr Met Met Val Met Val Ile Gly Asn	935	940	945
Leu Val Val Leu Asn Leu Phe Leu Ala Leu Leu Leu Ser Ser Phe	950	955	960
Ser Ser Asp Asn Leu Thr Ala Ile Glu Glu Asp Pro Asp Ala Asn	965	970	975
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Gln Val Asn Ile Glu Ser Gly Lys Gly Lys Ile Trp Trp Asn Ile	1160	1165	1170
Arg Lys Thr Cys Tyr Lys Ile Val Glu His Ser Trp Phe Glu Ser	1175	1180	1185
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Glu Asp Ile Tyr Ile Glu Arg Lys Lys Thr Ile Lys Ile Ile Leu	1205	1210	1215
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Lys Ser Leu Arg Thr Leu Arg Ala Leu Arg Pro Leu Arg Ala Leu	1280	1285	1290
Ser Arg Phe Glu Gly Met Arg Val Val Val Asn Ala Leu Ile Gly	1295	1300	1305
Ala Ile Pro Ser Ile Met Asn Val Leu Leu Val Cys Leu Ile Phe	1310	1315	1320
Trp Leu Ile Phe Ser Ile Met Gly Val Asn Leu Phe Ala Gly Lys	1325	1330	1335
Phe Tyr Glu Cys Ile Asn Thr Thr Asp Gly Ser Arg Phe Pro Ala	1340	1345	1350
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Ser Gln Asn Val Arg Trp Lys Asn Leu Lys Val Asn Phe Asp Asn	1370	1375	1380
Val Gly Leu Gly Tyr Leu Ser Leu Leu Gln Val Ala Thr Phe Lys	1385	1390	1395
Gly Trp Thr Ile Ile Met Tyr Ala Ala Val Asp Ser Val Asn Val	1400	1405	1410

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<211> 609

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 088957CD1

<400> 370

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20 25 30
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35 40 45
Leu Val Leu Ile Ala Phe Ala Gln Tyr Leu Gln Gln Cys Pro Phe
50 55 60
Glu Asp His Val Lys Leu Val Asn Glu Val Thr Glu Phe Ala Lys
65 70 75

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Thr	Cys	Val	Ala	Asp	Glu	Ser	Ala	Glu	Asn	Cys	Asp	Lys	Ser	Leu	
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His	Thr	Leu	Phe	Gly	Asp	Lys	Leu	Cys	Thr	Val	Ala	Thr	Leu	Arg	
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Glu	Thr	Tyr	Gly	Glu	Met	Ala	Asp	Cys	Cys	Ala	Lys	Gln	Glu	Pro	
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Leu	Pro	Arg	Leu	Val	Arg	Pro	Glu	Val	Asp	Val	Met	Cys	Thr	Ala	
				140					145					150	
Phe	His	Asp	Asn	Glu	Glu	Thr	Phe	Leu	Lys	Lys	Tyr	Leu	Tyr	Glu	
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Ile	Ala	Arg	Arg	His	Pro	Tyr	Phe	Tyr	Ala	Pro	Glu	Leu	Leu	Phe	
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Phe	Ala	Lys	Arg	Tyr	Lys	Ala	Ala	Phe	Thr	Glu	Cys	Cys	Gln	Ala	
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His	Gly	Asp	Leu	Leu	Glu	Cys	Ala	Asp	Asp	Arg	Ala	Asp	Leu	Ala	
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Lys	Tyr	Ile	Cys	Glu	Asn	Gln	Asp	Ser	Ile	Ser	Ser	Lys	Leu	Lys	
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Glu	Val	Glu	Asn	Asp	Glu	Met	Pro	Ala	Asp	Leu	Pro	Ser	Leu	Ala	
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Arg	His	Pro	Asp	Tyr	Ser	Val	Val	Leu	Leu	Leu	Arg	Leu	Ala	Lys	
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Thr	Tyr	Glu	Thr	Thr	Leu	Glu	Lys	Cys	Cys	Ala	Ala	Ala	Asp	Pro	
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Glu	Glu	Pro	Gln	Asn	Leu	Ile	Lys	Gln	Asn	Cys	Glu	Leu	Phe	Glu	
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Glu	Ala	Lys	Arg	Met	Pro	Cys	Ala	Glu	Asp	Tyr	Leu	Ser	Val	Val	
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Leu	Asn	Gln	Leu	Cys	Val	Leu	His	Glu	Lys	Thr	Pro	Val	Ser	Asp	
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Cys Phe Ser Ala Leu Glu Val Asp Glu Thr Tyr Val Pro Lys Glu
515 520 525
Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp Ile Cys Thr Leu
530 535 540
Ser Glu Lys Glu Arg Gln Ile Lys Lys Gln Thr Ala Leu Val Glu
545 550 555
Leu Val Lys His Lys Pro Lys Ala Thr Lys Glu Gln Leu Lys Ala
560 565 570
Val Met Asp Asp Phe Ala Ala Phe Val Glu Lys Cys Cys Lys Ala
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<211> 1620

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 980446.1

<220>

<221> unsure

<222> 1524

<223> a, t, c, g, or other

<400> 371

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<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 198827.1

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<213> Homo sapiens

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<223> Incyte ID No: 1102297.22

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<211> 534

<212> DNA

<213> Homo sapiens

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<221> misc_feature

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<211> 1254

<212> DNA

<213> Homo sapiens

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<210> 376

<211> 1962

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 242010.43

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<210> 381

<211> 2905

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 480885.2

<400> 381

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<210> 382

<211> 915

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 998106.8c

<400> 382

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attcagtata gtgtagatct accatgtaat taattctctg tttctttgag gagctgtgaa 600
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tgtgagacaa ttatgaaaag tgcagcgcag agccacttgg gtaaatcacg ccccggttt 720
ctgctcaggg gacagagttt gaggcactgc agaggaaccg gccaaagtat gagaccata 780
tattgagagt aacagagtgt aaagttcaaa aaaatcaaaa tatttaaaga tttatcatgg 840

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<210> 383
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<213> Homo sapiens

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<221> unsure
<222> 850
<223> a, t, c, g, or other

<400> 383
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<210> 384
<211> 796
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1100320.4

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aagtggccat tcttctgttc aaatctggtt aaaagcatgg actgtgccac acaccagtg 540
atccatccaa aaacaaggac tgcagcctaa attccaaata ccagagactg aaattttcag 600
ccttgctaag ggaacatctc gatgtttgaa cctttgttgt gttttgtaca gggcattctc 660

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tgtactagtt tgtcgtgggt ataaaaacaat tagcagaata gcttacattht gtattttattht 720
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<210> 385

<211> 864

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 246727.11

<220>

<221> unsure

<222> 847, 856

<223> a, t, c, g, or other

<400> 385

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ctthtttagca atcagtttga aaatctgtag aaacttagac aaaattagta gaaagtaatt 780
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<210> 386

<211> 2742

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 246727.17

<220>

<221> unsure

<222> 1841-2010

<223> a, t, c, g, or other

<400> 386

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aggttgaacc gtctaacaac agactttaat gtaattgtgg aagcattgag caaatccaag 360

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gcagaactca tggaaatcag tgaagataaa actaaaatca gaaggtctcc aagcaaacc 420
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<210> 387

<211> 742

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1102322.12c

<400> 387

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aaggaaggta gttgccaaca ccttgaattc tgggtgaaac cgogaatgtt ttggaccatt 660
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<210> 388

<211> 1161

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1102322.18

<400> 388

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<210> 389

<211> 1432

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2070610CB1

<400> 389

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ccaaccaaat gccactctct acaagatgtc atccattaat gctgactttg cattcaatct 240
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<210> 390
<211> 415
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
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380

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Leu Ile Asp Lys	Thr Thr Thr Val Gln	Val Pro Met Met His	Gln		
	230		235		240
Met Glu Gln Tyr	Tyr His Leu Val Asp	Met Glu Leu Asn Cys	Thr		
	245		250		255
Val Leu Gln Met	Asp Tyr Ser Lys Asn	Ala Leu Ala Leu Phe	Val		
	260		265		270
Leu Pro Lys Glu	Gly Gln Met Glu Ser	Val Glu Ala Ala Met	Ser		
	275		280		285
Ser Lys Thr Leu	Lys Lys Trp Asn Arg	Leu Leu Gln Lys Gly	Trp		
	290		295		300
Val Asp Phe Phe	Val Pro Lys Phe Ser	Ile Ser Ala Thr Tyr	Asp		
	305		310		315
Leu Gly Ala Thr	Leu Leu Lys Met Gly	Ile Gln His Ala Tyr	Ser		
	320		325		330
Glu Asn Ala Asp	Phe Ser Gly Leu Thr	Glu Asp Asn Gly Leu	Lys		
	335		340		345
Leu Ser Asn Ala	Ala His Lys Ala Val	Leu His Ile Gly Glu	Lys		
	350		355		360
Gly Thr Glu Ala	Ala Ala Val Pro Glu	Val Glu Leu Ser Asp	Gln		
	365		370		375
Pro Glu Asn Thr	Phe Leu His Pro Ile	Ile Gln Ile Asp Arg	Ser		
	380		385		390
Phe Met Leu Leu	Ile Leu Glu Arg Ser	Thr Arg Ser Ile Leu	Phe		
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Leu Gly Lys Val	Val Asn Pro Thr Glu	Ala			
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<210> 391

<211> 1215

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 336733.3

<400> 391

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tactgcgcta	gtcccaccgc	cggaggggac	gcaggcgtgc	aaatctgtct	cgctgcagg	180
aagcgccgaa	aacgctgcat	gcgtcacgct	atgtgctgcc	ccgggaatta	ctgcaaaaat	240
ggaatatgtg	tgtcttctga	tcaaaatcat	ttccgaggag	aaattgagga	aaccatcact	300
gaaagctttg	gtaatgatca	tagcaccttg	gatgggtatt	ccagaagaac	caccttgtct	360
tcaaaaatgt	atcacaccaa	aggacaagaa	ggttctgttt	gtctccggtc	atcagactgt	420
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tgctgcactg	cctatttttt	ctcttggtat	gtaaatTTTT	gtacacattg	attgttatct	960
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gcataaccct ttaccccatt taattctaga gtctagaacg caaggatctc ttggaatgac 1080
aaatgatagg tacctaaaat gtaacatgaa aatactagct tattttctga aatgtactat 1140
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<210> 392

<211> 975

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1326902.13

<220>

<221> unsure

<222> 174

<223> a, t, c, g, or other

<400> 392

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<210> 393

<211> 1660

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1326902.6

<400> 393

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<210> 394

<211> 773

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 013521.16

<400> 394

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<210> 395

<211> 1321

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 985369.1

<400> 395

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<210> 396

<211> 1275

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 002455.1

<220>

<221> unsure

<222> 525

<223> a, t, c, g, or other

<400> 396

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gcgggactg ggggcgcggg aggggacgtg gcaggccccg cgggggccac ggcatccca 180
ggggccagga aggtcccgtt gcgggcacgc aatctgccct ccgtccttct tcacggagcc 240
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aaaaaaaaaa aaagg                                     1275
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<210> 397

<211> 792

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 372647.1

<400> 397

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ctgttactat tatggaataa tgtaaagtta agaattaatt atgattacag tagttatggg 420
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tattcattta ccaaatattg atcaaaaact actttgtgtc taccatcaga atttaaaaga 600
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agctatatta cacaatgaga taagtgtctt aataacaata tagagctgta agggagtgaa 720
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gttaaacgaa gc                                     792
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<210> 398

<211> 1293

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 208075.1

<220>

<221> unsure

<222> 540-668

<223> a, t, c, g, or other

<400> 398

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ttttggtaca gagatagaat taaataacat aaaaatcaaa aatttattag gctaaaattt 180
tgaggagaaa gtggtatgaa aatacaaat caaggagtaa aaggaaaagt ggggcattcc 240
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agagattttc aaaattcact taagagtatc tgagcataaa atgttaagat tgctgatcgn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
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<210> 399

<211> 2521

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 209279.1

<400> 399

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<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 381058.1

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